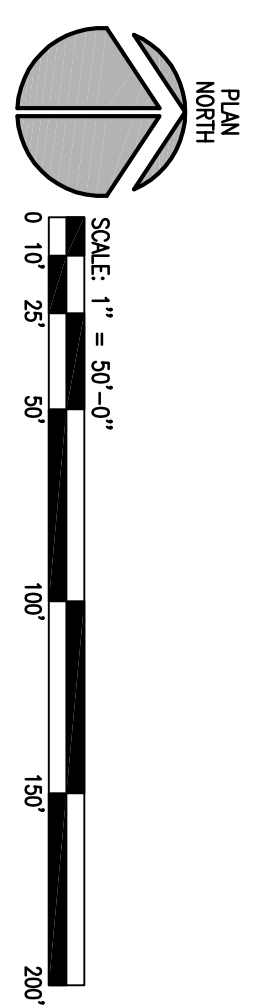
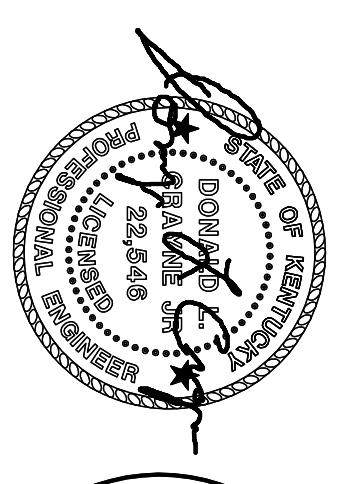


- GENERAL NOTES:
1. NON POTABLE WATER IS SHOWN AS NP.
- TAGGED NOTES:
1. REFER TO ACADEMIC PLUMBING PLAN FOR CONTINUATION INTO THE BUILDING.
 2. SANITARY SEWER TO SEPTIC SYSTEM, REFER TO CIVIL ENGINEER'S SWAMPY TREATMENT SYSTEM DRAWINGS.
 3. ALL EQUIPMENT'S GEOMETRICAL VAULT, REFER TO SPECIFICATIONS. ANCHOR VAULT IN GROUND WITH CONCRETE PER MANUFACTURER'S INSTRUCTIONS. REFER TO GEOMETRICAL VAULT SCHEMATIC ON SHEET A-2.2.
 4. GEOMETRICAL VAULT WITH ONE INCH ABOVE PIPE, TYPICAL. BOTTOM OF 4'-4" DIA. TO BE 30.0 FEET DEEP. SHALL HOLD 5'-10" DEEP. AS REQUIRED TO INSTALL PIPING TO REQUIRED DEPTH. GROUT HOLE WITH THERMALLY ENHANCED GROUT USING TRUBE TUBE PER SPECIFICATIONS. TYPICAL. CONTRACTOR SHALL PROVIDE DIMENSIONED NUMBER OF THERMALLY ENHANCED GROUT WELL LOCATIONS. INCLUDING GRS CONNECTIONS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
 5. 20' SPACING BETWEEN GEOMETRICAL BERBERGERS, TYPICAL. REFER TO GEOMETRICAL WELL-FIELD SCHEMATIC ON SHEET A-2.2 FOR DETAILS.
 6. FIRE PROTECTION VAULT, REFER TO CIVIL'S SITE WATER DISTRIBUTION PLAN.
 7. REFER TO SHOW AREA FIRST FLOOR PLUMBING PLAN FOR CONTINUATION OF SEWER INTO THE BUILDING.
 8. REFER TO ACADEMIC PLUMBING PLAN FOR CONTINUATION OF SEWER INTO THE BUILDING.
 9. ROOF LEADER STORM SEWER PIPE TO RAINWATER HARVESTING TANK, REFER TO CIVIL STORM AND DRAINAGE PLAN FOR CONTINUATION.
 10. ROOF LEADER STORM SEWER PIPE, REFER TO ACADEMIC PLUMBING PLAN FOR CONTINUATION.
 11. 6" HWS/RRS PIPING UP IN MESH 1058. REFER TO A-2.0A FOR CONTINUATION.
 12. 3" HWS/RRS PIPING UP IN MESH 1058. REFER TO A-2.0A FOR CONTINUATION.
 13. ALTERNATE #10, PROVIDE DUPLEX BOOSTER PUMP SYSTEM IN BUILDING ENCLOSURE TO PUMP WATER FROM WELL WATER UNDER GROUND STORAGE TANK TO THE BUILDING. REFER TO THE CIVIL ENGINEER'S WATER DISTRIBUTION PLAN FOR ADDITIONAL INFORMATION ON WATER WELL AND STORAGE TANK. WATER MAIN FROM PUMP TO THE BUILDING SHALL ONLY BE PROVIDED UNDER ALTERNATE #10.
 14. FIRE PROTECTION MAIN TO THE BUILDING, REFER TO THE CIVIL ENGINEER'S WATER DISTRIBUTION PLAN FOR REQUIREMENTS.
 15. WATER WETTER PIT, REFER TO THE CIVIL ENGINEER'S WATER DISTRIBUTION PLAN. IF ALTERNATE #10 IS TAKEN, PROVIDE EMPTY WATER WETTER PIT WITH METAL COVER LID AND PROVIDE 3" CAPPED WATER PIPING FROM PIT TO NEAR THE BUILDING AS SHOWN. REFER TO TAGGED NOTE 18.
 16. REFER TO AREA FIRST FLOOR PLUMBING PLAN FOR CONTINUATION OF WATER MAIN INTO BUILDING.
 17. PROVIDE 2" DOMESTIC WATER FILL LINE TO RAINWATER HARVESTING STORAGE TANK. CONNECT TO SIZING SHOWN ON CIVIL WATER DISTRIBUTION PLAN.
 18. IF ALTERNATE #10 IS TAKEN, CONNECT THE WATER MAIN FROM THE WELL TO GENERATOR WATER MAIN INTO THE BUILDING AND CAP WATER MAIN FROM THE CITY WATER MAIN BELOW GROUND IN THIS LOCATION BELOW GRADE FOR POSSIBLE FUTURE CONNECTION.
 19. ALTERNATE #10, WELL WATER UNDER GROUND STORAGE TANK, REFER TO THE CIVIL ENGINEER'S WATER DISTRIBUTION PLAN.
 20. DISCHARGE COMPENSATE RAIN PIPE TO OUTSIDE, PROVIDE REDWALL WITH WARRANT CARD, REFER TO PLUMBING SPECIFICATIONS SECTION OF THE MECHANICAL SPECIFICATIONS.
 21. REFER TO THE ACADEMIC BUILDING PLUMBING PLAN FOR CONTINUATION OF COMPENSATE RAIN PIPE INTO THE BUILDING.
 22. 50% DRAINAGE RATE COMPENSATE TANKS, COMPENSATE TANK 1200, SUPPLIER, SEE UNIT BY CONTRACT LIST THIS SHEET. PIPING FROM COMPENSATE TANK SHALL BE SET OFF FROM INSTALLED BEFORE AND SETBACK LIST THIS SHEET. REQUIRED BY THE PROVIDE SUPPLIER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION COSTS AND PROTECT THE FIRST TANK, TANK OR PROVIDE THE TANK SHALL BE TOPPED OFF AFTER TESTING OF THE COMPENSATE TANK TO DRAIN THE TANK WITH A TALL TANK.
 23. PROVIDE 2" PROTECT PIPING FROM PROVIDE TANK TO GENERATOR, PROVIDE 4" PVC PIPE SLEEVE WITH SWEETING TUBING. PROVIDE CONNECTION POINT TO THE GENERATOR WITH PIPE SWEETING. REQUIRED BY PROVIDER AT SUPPLIER'S DISCRETION. EXACT CONNECTION POINTS WITH THE PROVIDE TANK AND GENERATOR, REFER TO PROVIDE GAS CONNECTION DETAIL ON SHEET P-4.0.
 24. PROVIDE A REGULATOR AND SHUT-OFF VALVE OUTSIDE THE GREEN HOUSE AT THE POINT WHERE THE PROVIDE PIPE ENTERS THE GREEN HOUSE BUILDING. REFER TO ACADEMIC BUILDING PLUMBING PLAN FOR CONTINUATION OF THE PROVIDE PIPING INTO THE GREEN HOUSE.



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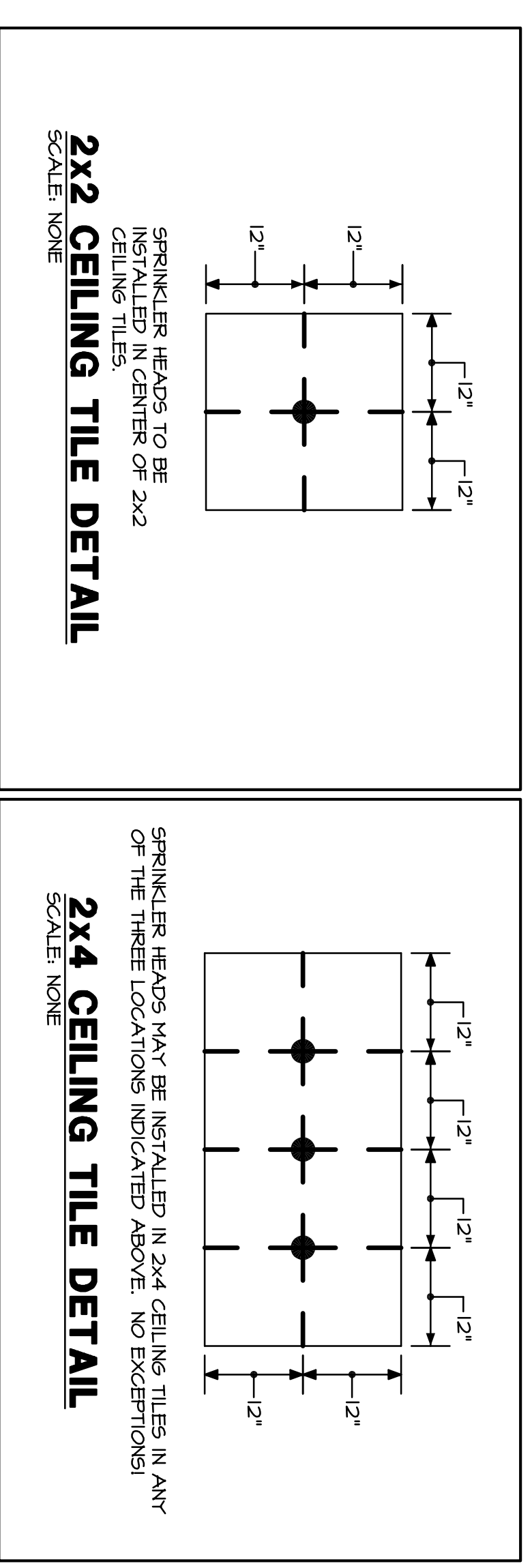
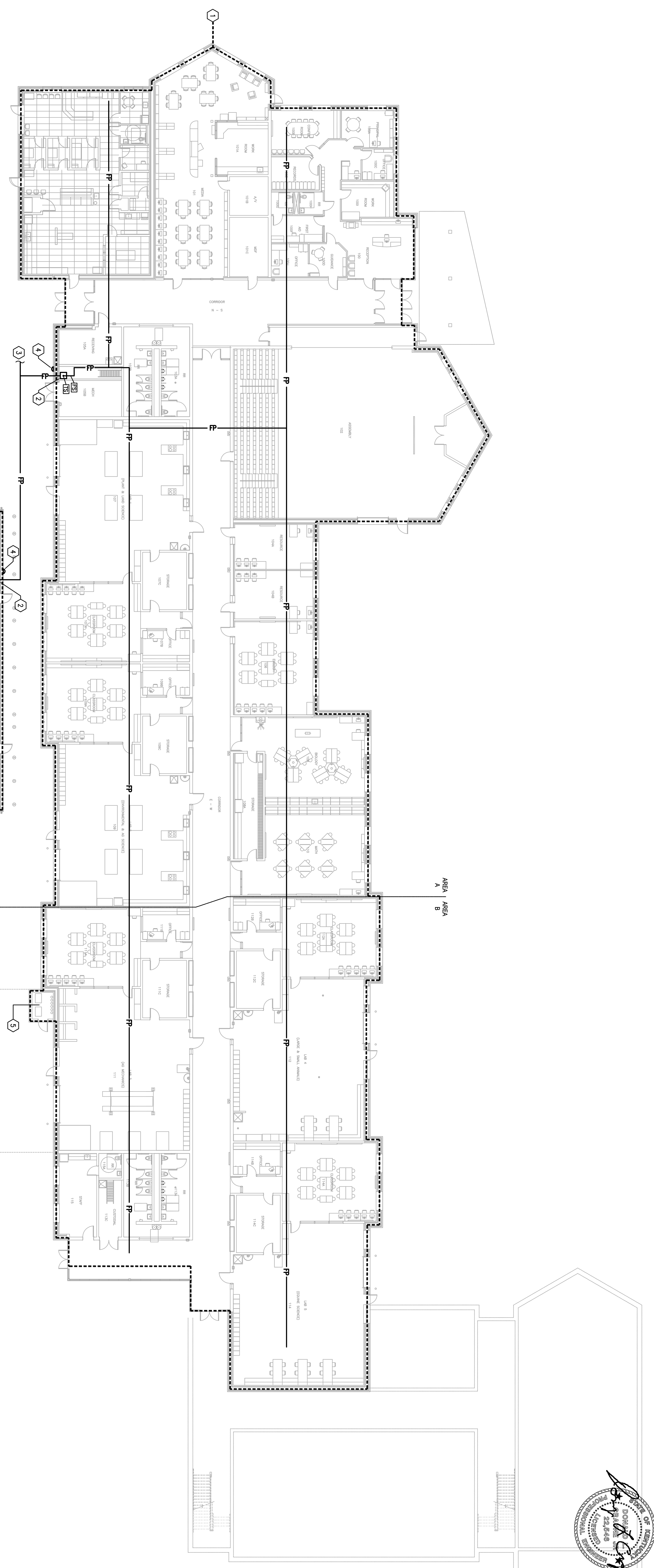
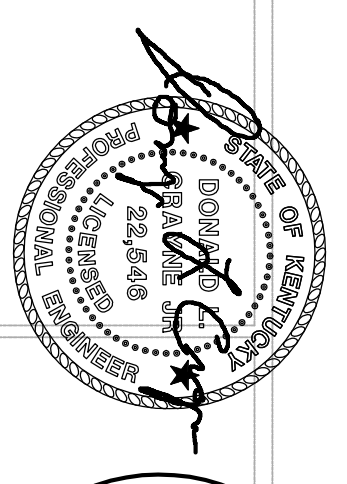
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Proj. #: 0901FAS09
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MECHANICAL SITE UTILITIES
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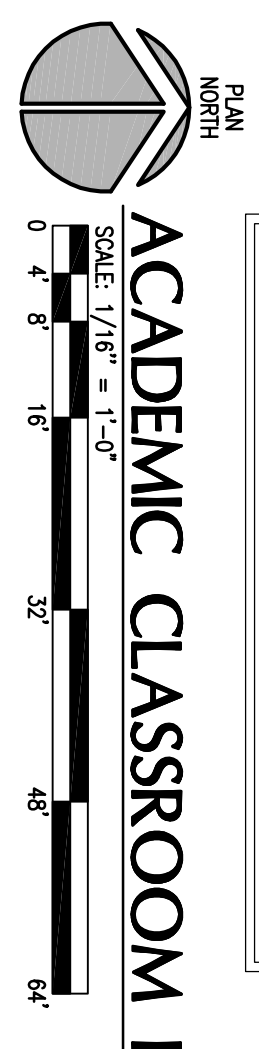
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- LABELED NOTES:**
1. THE ENTIRE OUTRIG AREA SHALL BE PROTECTED WITH A 100% WET PIPE SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 13. NOTE THAT SPRINKLER MAINS ARE SHOWN FOR COORDINATION PURPOSES ONLY. SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER PIPING SO AS TO NOT INTERFERE WITH HVAC, PLUMBING AND ELECTRICAL EQUIPMENT MAINTENANCE/SERVICE CLEARANCES.
 2. FIRE PROTECTION ENTRANCE RISER WITH BUTTERFLY VALVE, TAMPER SWITCH AND FLOW SWITCH AND ALL ACCESSORIES REQUIRED BY NFPA 13.
 3. REFER TO SITE UTILITIES PLAN FOR CONTINUATION.
 4. PROVIDE ELECTRIC ALARM BELL.
 5. PROVIDE FREEZE PROOF SIDE WALL SPRINKLER HEAD IN AIR COMPRESSOR ROOM.
 6. REFER TO THE GREENHOUSE PLAN. CONTRACTOR SHALL PROVIDE TWO LEVELS OF SPRINKLER PIPING AND SPRINKLER HEADS ONE LEVEL SHALL BE ABOVE THE SHADE SYSTEM AND THE SECOND LEVEL SHALL BE BELOW THE SHADE SYSTEM. REFER TO GREENHOUSE DRAWING SHEETS SH10 THROUGH SH13 FOR CONTINUATION.

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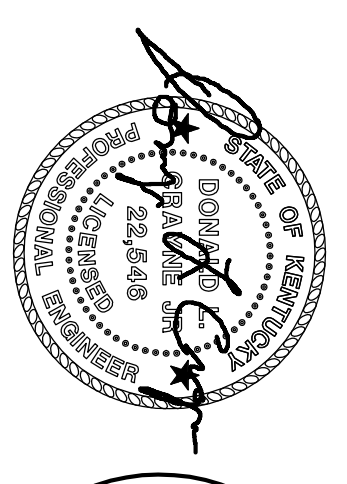
ACADEMIC CLASSROOM BUILDING FLOOR PLAN – FIRE PROTECTION

ACADEMIC CLASSROOM BUILDING
FIRE PROTECTION PLAN
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
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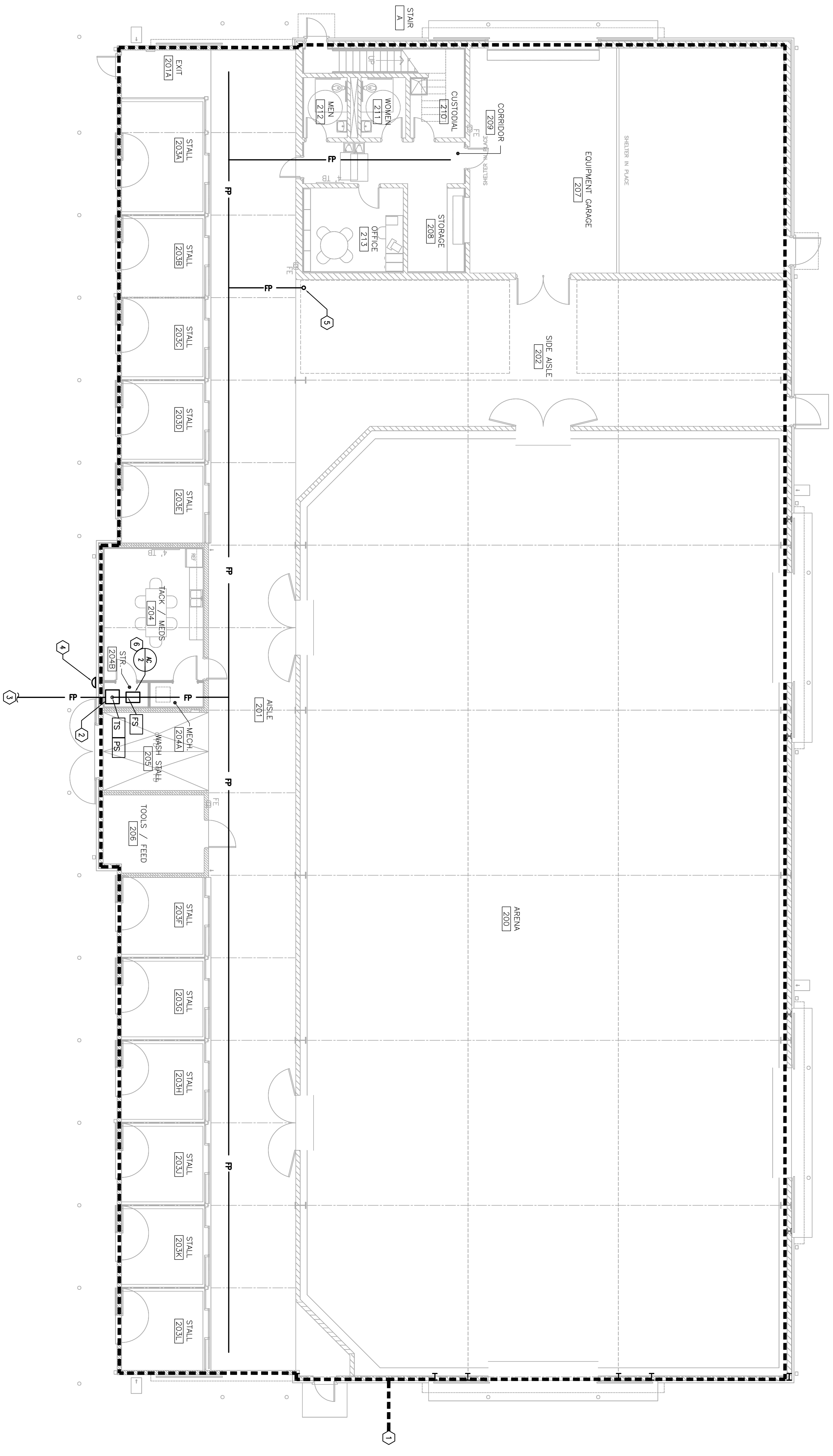
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- ISSUED NOTES:**
1. THE ENTIRE OUTLINED AREA SHALL BE PROTECTED WITH A 100K TYPIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 13. NOTE THAT SPRINKLER MAINS ARE SHOWN FOR COORDINATION PURPOSES ONLY. SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER PIPING SO AS TO NOT INTERFERE WITH HVAC, PLUMBING AND ELECTRICAL EQUIPMENT MAINTENANCE/SERVICE CLEARANCES.
 2. FIRE PROTECTION ENTRANCE RISER WITH BUTTERFLY VALVE, TAMPER SWITCH AND FLOW SWITCH AND ALL ACCESSORIES REQUIRED BY NFPA 13.
 3. REFER TO SITE UTILITIES PLAN FOR CONTINUATION.
 4. PROVIDE ELECTRIC ALARM BELL.
 5. FIRE PROTECTION MAIN UP, REFER TO THE SECOND FLOOR FIRE PROTECTION PLAN FOR CONTINUATION.
 6. PROVIDE INLINE OR FLOOR MOUNTED AIR COMPRESSOR AS REQUIRED FOR HYDRAULICALLY SIZED DRY PIPE SPRINKLER SYSTEM.

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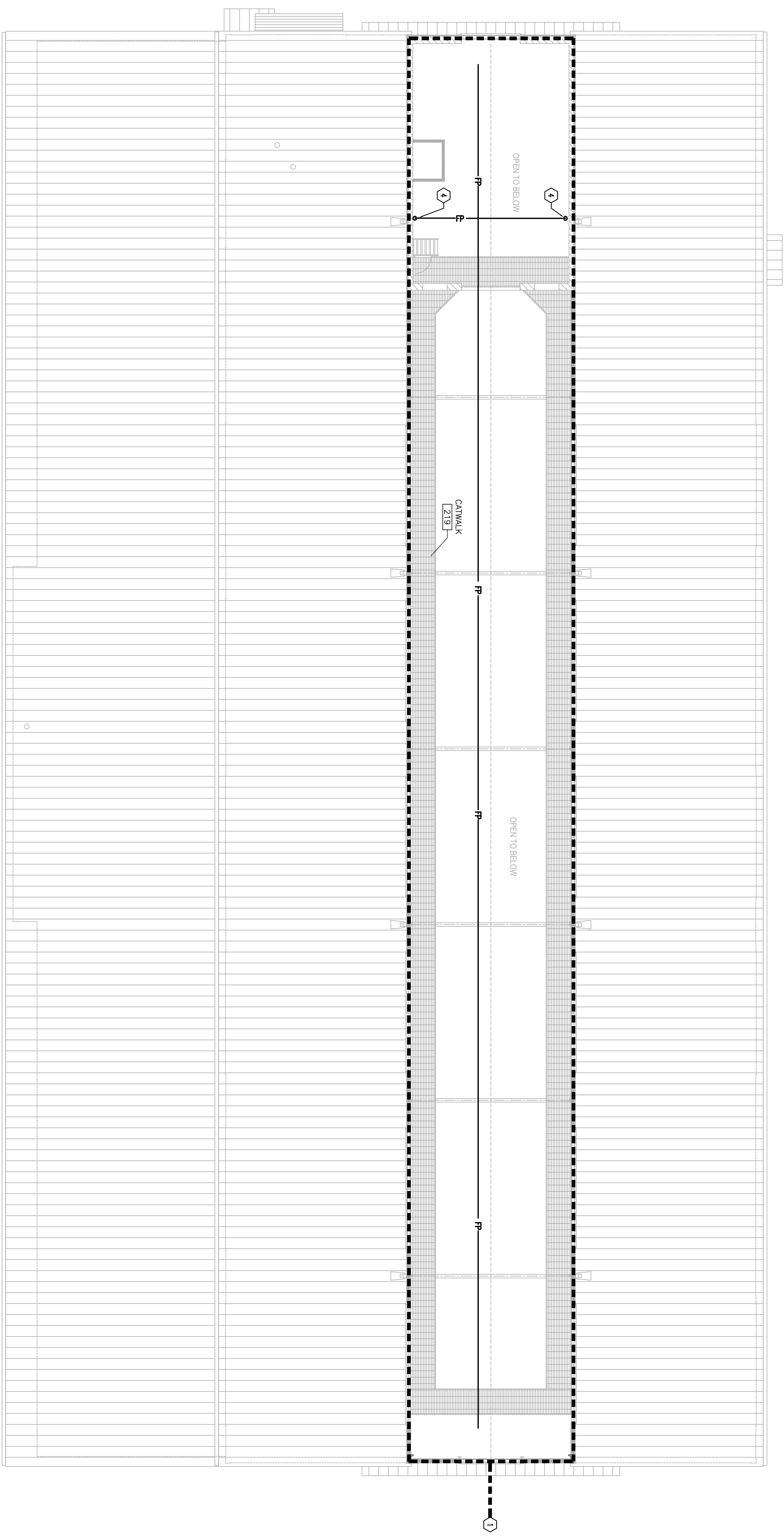
SHOW ARENA AND CLASSROOM – FIRST FLOOR PLUMBING PLAN
 SCALE: 1/8" = 1'-0"
 0' 5' 10' 15' 20' 25'

FP2.1A

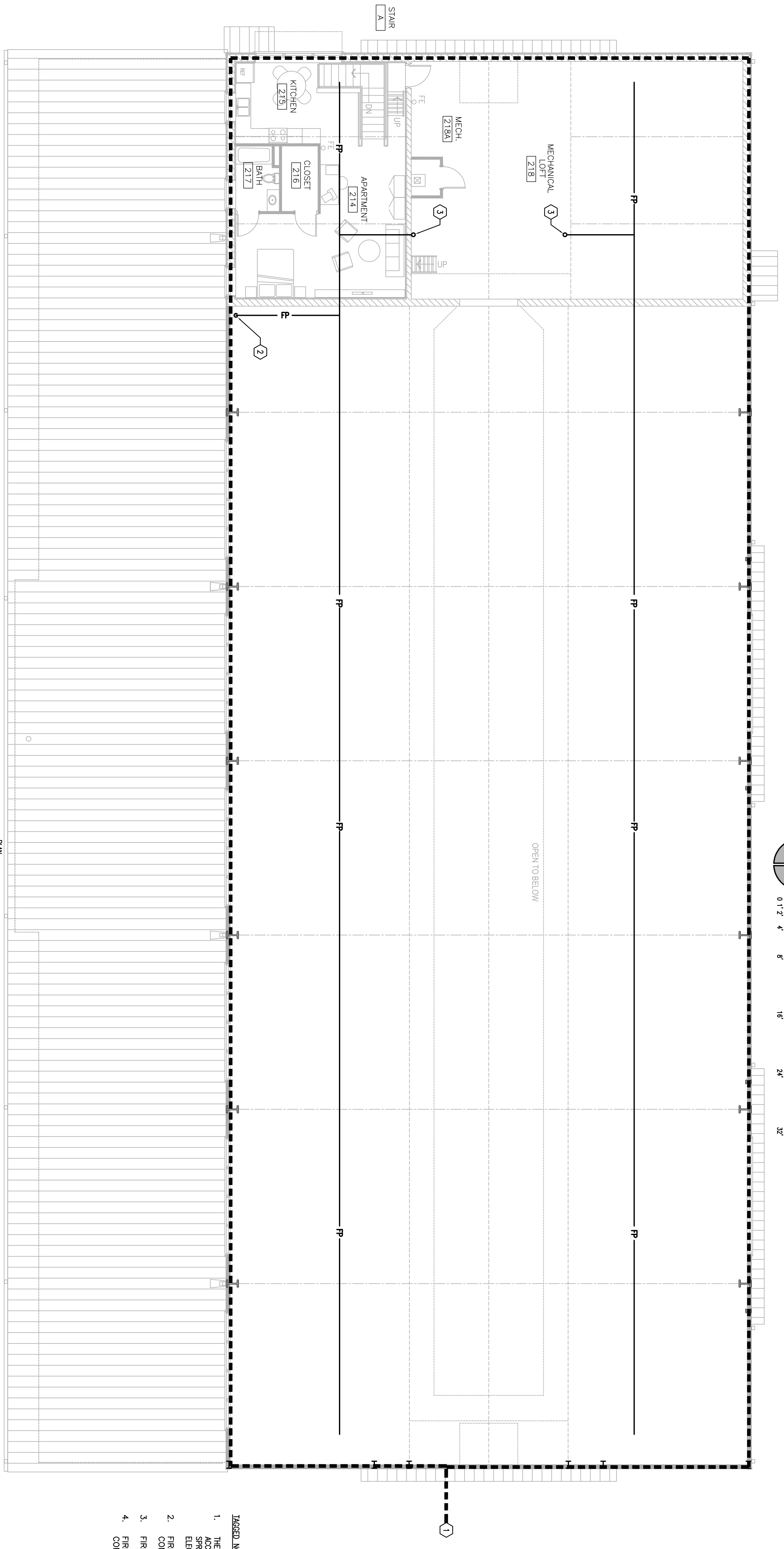
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 Checked: DC
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**SHOW ARENA AND CLASSROOM
 FIRST FLOOR FIRE PROTECTION PLAN**

FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511



SHOW ARENA AND CLASSROOM – CLERESTORY FIRE PROTECTION



SHOW ARENA AND CLASSROOM – SECOND FLOOR FIRE PROTECTION

- TAGGED NOTES:**
1. THE ENTIRE OUTLINED AREA SHALL BE PROTECTED WITH A 100% RISK FREE SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13. THE SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER PIPING AS TO NOT INTERFERE WITH HVAC, PLUMBING AND ELECTRICAL EQUIPMENT MAINTENANCE/SERVICE CLEARANCES.
 2. FIRE PROTECTION MAIN DOWN, REFER TO THE FIRST FLOOR FIRE PROTECTION PLAN FOR CONTINUATION.
 3. FIRE PROTECTION MAIN UP, REFER TO CLERESTORY FIRE PROTECTION PLAN FOR CONTINUATION.
 4. FIRE PROTECTION MAIN DOWN, REFER TO SECOND FLOOR FIRE PROTECTION PLAN FOR CONTINUATION.

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SECOND/THIRD FLOOR FIRE PROTECTION PLAN
SHOW ARENA AND CLASSROOM

FAYETTE COUNTY PUBLIC SCHOOLS
Locust Trace Equine AgriScience Farm
3591 Leestown Road Lexington, KY 40511

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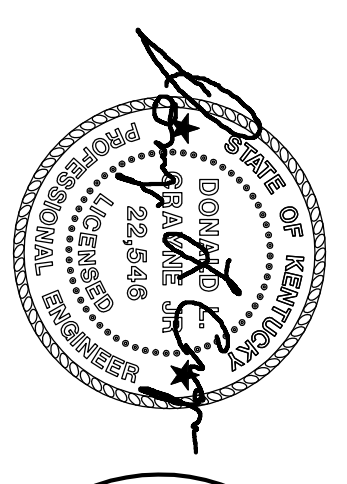
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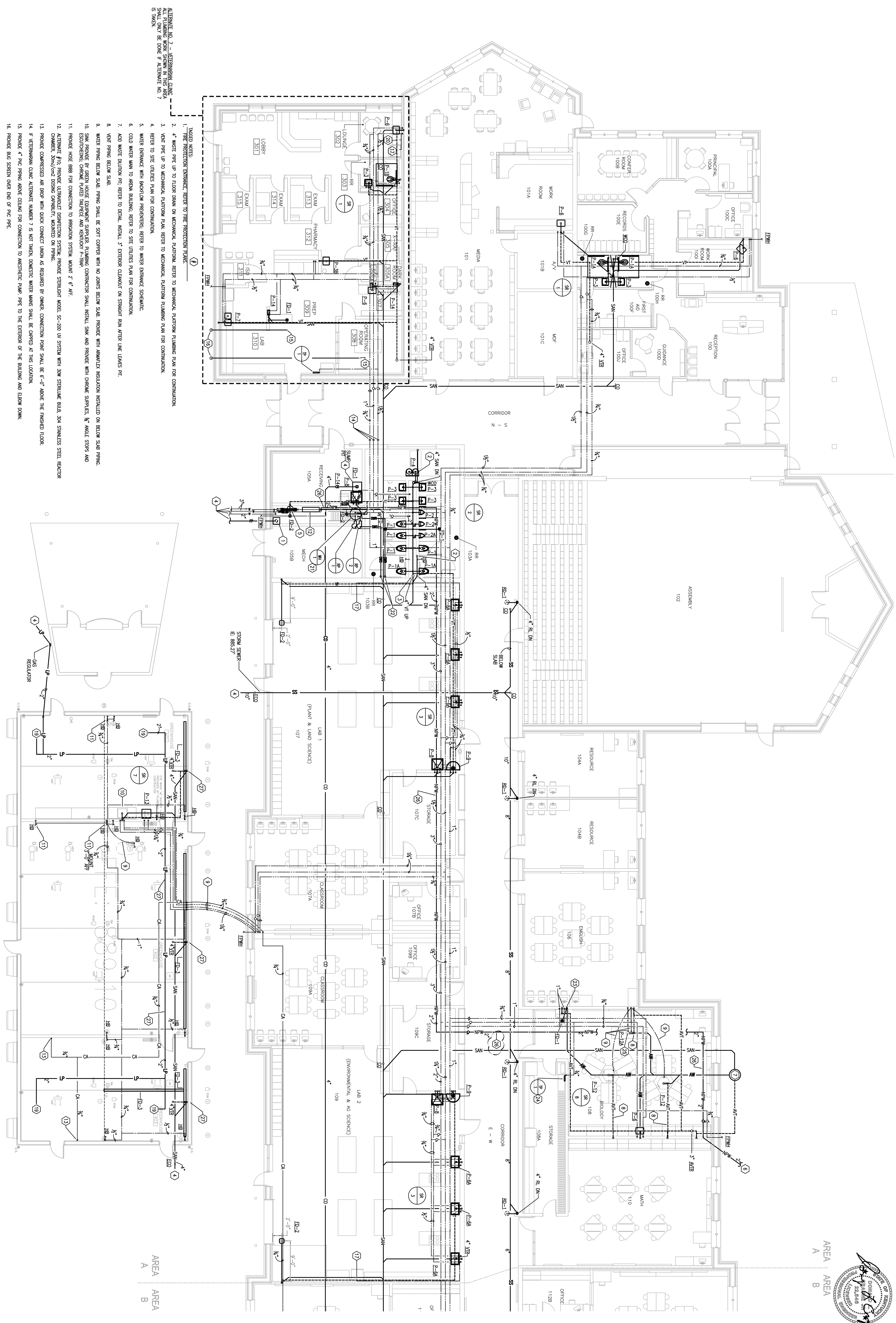
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ACADEMIC CLASSROOM BUILDING
AREA "A" PLUMBING PLAN
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

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P2.0A



ALTERNATE NO. 7 - VESTIBULAR CLINIC
 ALL PLUMBING WORK SHOWN IN THIS AREA SHALL BE DONE BY ALTERNATE NO. 7

- TAGGED NOTES:**
1. THE PROTECTION STRUCTURE REFER TO THE PROTECTION PLAN.
 2. 4" WASTE PIPE UP TO FLOOR DRAIN ON MECHANICAL PLATFORM REFER TO MECHANICAL PLATFORM PLUMBING PLAN FOR CONTINUATION.
 3. VENT PIPE UP TO MECHANICAL PLATFORM REFER TO MECHANICAL PLATFORM PLUMBING PLAN FOR CONTINUATION.
 4. REFER TO SITE UTILITIES PLAN FOR CONTINUATION.
 5. WATER ENTRANCE WITH BACKFLOW PREVENTERS; REFER TO WATER ENTRANCE SCHEMATIC.
 6. COLD WATER MAIN TO ASBIA BUILDING; REFER TO SITE UTILITIES PLAN FOR CONTINUATION.
 7. ADD WASTE DRAINION PIT; REFER TO DETAIL. INSTALL 3" EXTERIOR CLEANOUT ON STORM RAIN AFTER LINE LEAVES PIT.
 8. VENT PIPING BELOW SLAB.
 9. WATER PIPING BELOW SLAB. PIPING SHALL BE SOFT COPPER WITH NO JOINTS BELOW SLAB. PROVIDE WITH ABSOLUTE INSULATION INSTALLED ON BELOW SLAB PIPING.
 10. SINK PROVIDE BY GREENHOUSE EQUIPMENT SUPPLIER. PLUMBING CONTRACTOR SHALL INSTALL SINK AND PROVIDE WITH GROUPE SPACERS, 3/4" ANGLE STOPS AND ESCUTCHEONS; CHROME PLATED ALUMINUM AND KENTUCKY P-TRAP.
 11. PROVIDE HOSE BIBB FOR CONNECTION TO REGISTRATION SYSTEM MOUNT 2' 6" AFF.
 12. ALTERNATE #10; PROVIDE ULTRAVIOLET DISINFECTION SYSTEM PROVIDE STRIBURD MODEL SC-200 UV SYSTEM WITH 30W STERILIZATION BULB, 304 STAINLESS STEEL REACTOR CHAMBER, 30W/PMI DOME COMPARTMENT, MOUNTED ON PIPING.
 13. PROVIDE COMPRESSED AIR DROP WITH QUICK CONNECT UNION AS REQUIRED BY OWNER. CONNECTION POINT SHALL BE 6'-0" ABOVE THE FINISHED FLOOR.
 14. IF VESTIBULAR CLINIC ALTERNATE NUMBER 7 IS NOT TAKEN, DOMESTIC WATER MAIN SHALL BE CAPPED AT THIS LOCATION.
 15. PROVIDE 4" PVC PIPING ABOVE CEILING FOR CONNECTION TO METASTATIC PUMP. PIPE TO THE EXTERIOR OF THE BUILDING AND ELBOW DOWN.
 16. PROVIDE BAG SCREEN OVER END OF PVC PIPE.
 17. PROVIDE 1/2" COLD WATER CONNECTION TO THE REFRIGERATOR ICE MAKER. PROVIDE SHUT-OFF VALVE, CHECK VALVE AND WATER FILTER AND INSTALL BELOW SINK. PROVIDE CONNECTION UNION AND MAKE FINAL CONNECTION TO REFRIGERATOR.
 18. CONDENSATE SLUMP PIT REFER TO CONDENSATE SLUMP DETAIL ON SHEET P4.1.
 19. PROVIDE PROPOSED CONNECTION TO UNIT HEATER. COORDINATE EXACT CONNECTION POINT OF UNIT HEATER WITH GREENHOUSE EQUIPMENT SUPPLIER. REFER TO PROVIDING GAS CONNECTION DETAIL ON SHEET P4.1.
 20. PROVIDE 1/2" COLD WATER CONNECTION TO COFFEE MAKER. PROVIDE SHUT-OFF VALVE, CHECK VALVE AND WATER FILTER AND INSTALL BELOW SINK. PROVIDE A GROUNDWATER HOLE IN THE CEILING FOR 1/2" CONNECTION UNION AND MAKE FINAL CONNECTION TO REFRIGERATOR.
 21. SLOPE WATER HEATER REFER TO ARCHITECT. PLATFORM REFER TO MECHANICAL PLATFORM PLUMBING PLAN SHEET P4.1.
 22. SLOPE WATER LOOP UP TO MECHANICAL PLATFORM REFER TO MECHANICAL PLATFORM PLUMBING PLAN FOR CONTINUATION.
 23. EMERGENCY SHOWER/EYE WASH UNIT PROVIDED BY SCIENCE ROOM CUSTOMER SUPPLIER. PROVIDE WATER SUPPLY AND WASTE CONNECTIONS. PROVIDE LEANED MODEL TH-5100 EMERGENCY WATER MAIN VALVE EXPOSED ON THE WALL ABOVE THE EMERGENCY SHOWER UNIT AND PROVIDE 1" TAPERED WATER SUPPLY TO THE EMERGENCY SHOWER AND EYE WASH UNIT. COORDINATE WITH CUSTOMER SHOP DRAWINGS.
 24. PROVIDE ELECTRIC TRAP PRIMER MOUNTED AND INSTALL ON THE WALL ABOVE THE FLAMMABLE STORAGE CABINET. REFER TO MECHANICAL SPECIFICATIONS FOR TRAP PRIMER SELECTION. TRAP PRIMER SHALL BE SAME AS TH-17 EXCEPT WITH JUST ONE WATER SUPPLY OPENING IS REQUIRED.
 25. PROVIDE LEANED MODEL TH-300 EMERGENCY WASH VALVE AND MOUNT BELOW SINK. COORDINATE WITH CUSTOMER SHOP DRAWINGS.
 26. NON-HORIZONTAL WELL WATER PIPING INSULATION SHALL BE PAINTED PIPING AND SHALL BE WAPPED EVERY 4'-0" AS NON-PAINTABLE WATER.

27. 4" STAINLESS STEEL SHALL BE EXTENDED THROUGH EXTERIOR SIDE WALL HORIZONTALLY AND NOT THROUGH THE ROOF AS SPRAIN. VENT PRESS SHALL PENETRATE THE ALUMINUM PANEL PROVIDED BY THE GREENHOUSE MANUFACTURER (ROUGH BROS.) BELOW THE PIPE. VENT UP AND EXTEND 1'-0" MIN. ABOVE THE ROOF EDGE TO TERMINATION.
28. REFER TO GREENHOUSE PROVIDE 2" UP PIPING CONNECTIONS TO (2) PROVIDE HEATERS LOCATED IN THE CENTER BAY OF THE GREENHOUSE. PROVIDE HEATER LOCATIONS ARE SHOWN ON SHEET C6.1.

GENERAL NOTE:

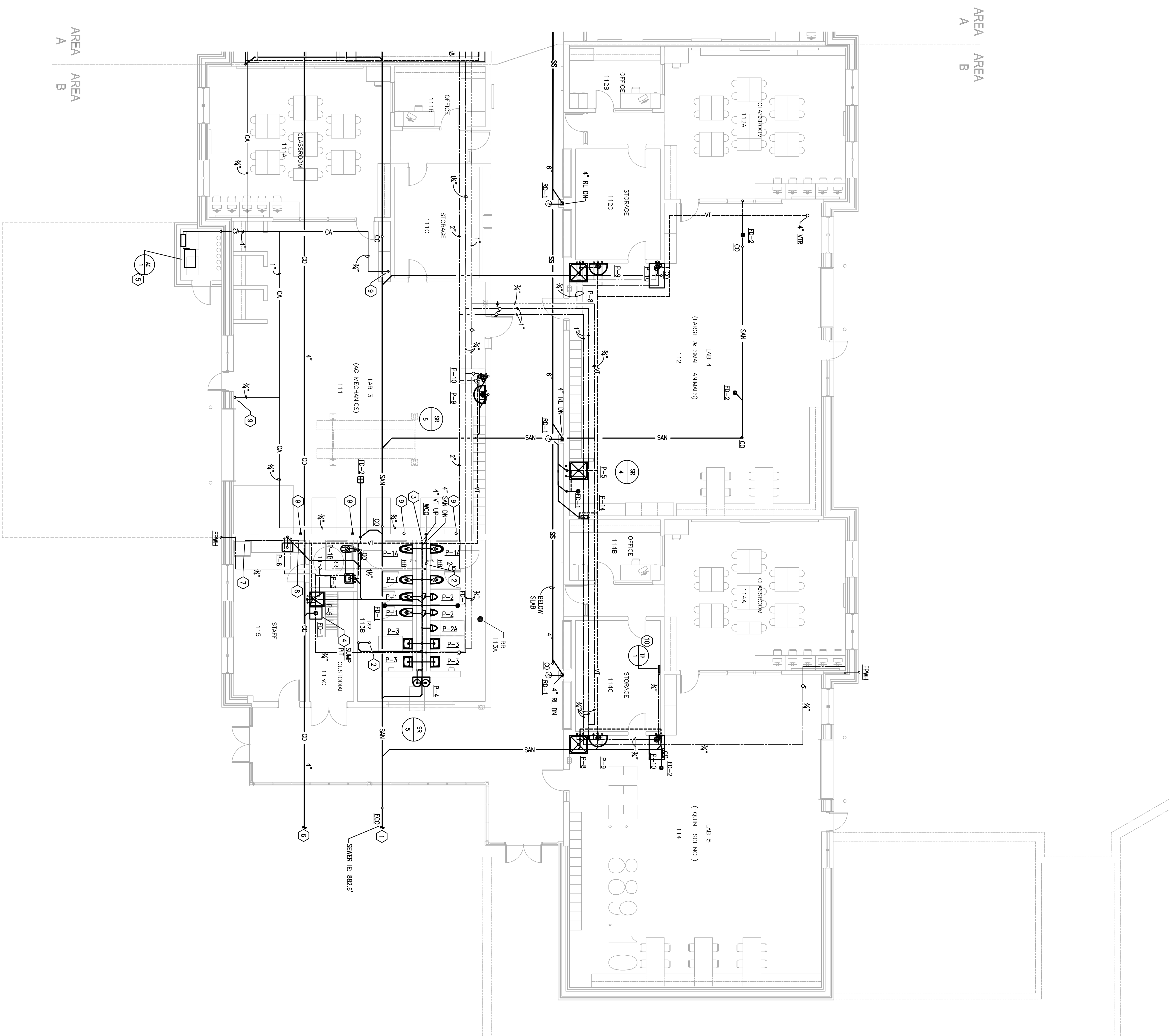
ALL OF THE ROOF LEADER VERTICAL PRESS IN THE CORRIDOR SHALL BE PAINTED AS REQUIRED BY THE ARCHITECT. PROVIDE TWO ROLLED OUTER MODEL CUSTOM STEEL PIPE BUNDLES PER ROOF LEADER TO SECURE PIPE TO THE BUILDING STRUCTURE. BUNDLES SHALL BE PAINTED TO MATCH THE BUILDING EXTERIOR. PROVIDE LEANED MODEL TH-5100 EMERGENCY WATER MAIN VALVE EXPOSED ON THE WALL ABOVE THE EMERGENCY SHOWER AND EYE WASH UNIT. COORDINATE WITH CUSTOMER SHOP DRAWINGS.

ACADEMIC CLASSROOM BUILDING FLOOR PLAN - AREA A PLUMBING

SCALE: 1/8" = 1'-0"

0' 2' 4' 6' 8' 10' 12' 14' 16' 18' 20' 22'

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- TASKED NOTES:**
1. REFER TO SITE UTILITIES PLAN FOR CONTINUATION.
 2. 4" WASTE PIPE UP TO ROOF DRAIN ON MECHANICAL PLATFORM. REFER TO MECHANICAL PLATFORM PLUMBING PLAN FOR CONTINUATION.
 3. VENT PIPE UP TO MECHANICAL PLATFORM PLAN. REFER TO MECHANICAL PLATFORM PLUMBING PLAN FOR CONTINUATION.
 4. CONDENSATE SLUMP PIT. REFER TO CONDENSATE SLUMP DETAIL ON SHEET P-4.0.
 5. PIPE DRAIN PIPE TO EXTERIOR OF THE BUILDING.
 6. PIPE CONDENSATE DRAIN PIPE TO DRAINAGE. REFER TO THE SITE UTILITIES PLAN FOR CONTINUATION.
 7. PROVIDE 1/2" COLD WATER CONNECTION TO THE REGENERATOR. BE SURE PROVIDE SHUT-OFF VALVE, CHECK VALVE AND WATER FILTER AND INSTALL BELOW SINK. PROVIDE CONNECTION UNION AND MAKE FINAL CONNECTION TO REGENERATOR.
 8. PROVIDE 1/2" COLD WATER CONNECTION TO COFFEE MAKER. PROVIDE SHUT-OFF VALVE, CHECK VALVE AND WATER FILTER AND INSTALL BELOW SINK. PROVIDE A GROMMET HOLE IN THE COUNTER TOP AND A CONNECTION UNION AND MAKE FINAL CONNECTION TO REGENERATOR.
 9. PROVIDE COMPRESSED AIR DRAIN WITH QUICK CONNECT UNION AS REQUIRED BY OWNER.
 10. TP-1 IN STORAGE 114C SHALL PROVIDE WAKE UP WATER TO ALL THE FLOOR DRAINS IN LAB 4 AND LAB 3.

AREA A
AREA B

AREA A
AREA B

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Record Documents Date: 02/29/2012

SCALE 1/8" = 1'-0"
0 1 2 4 8 16 24 32

PLAN
KMR

ACADEMIC CLASSROOM BUILDING FLOOR PLAN - AREA B PLUMBING

P2.0B

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**ACADEMIC CLASSROOM BUILDING
AREA "B" PLUMBING PLAN**

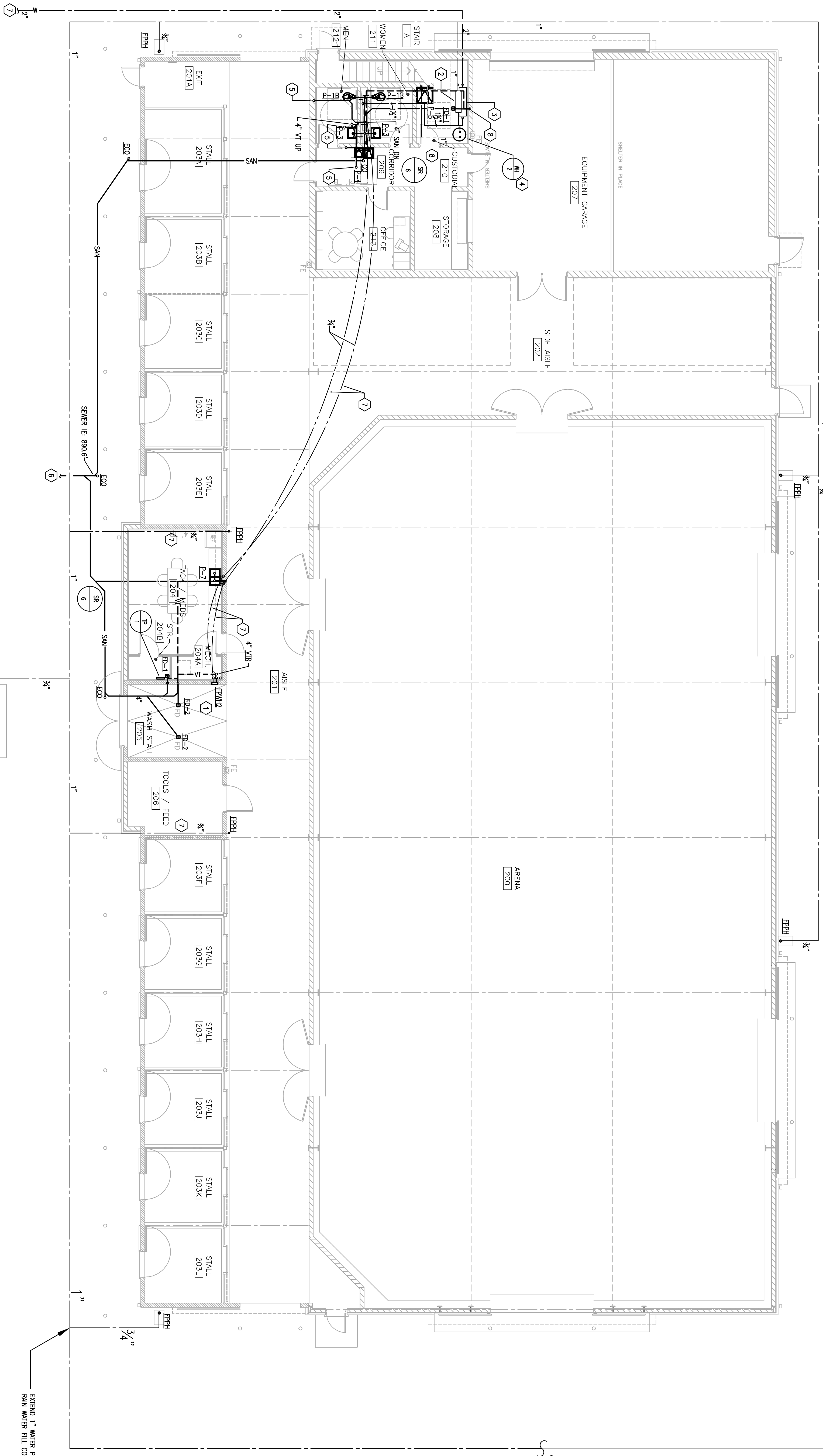
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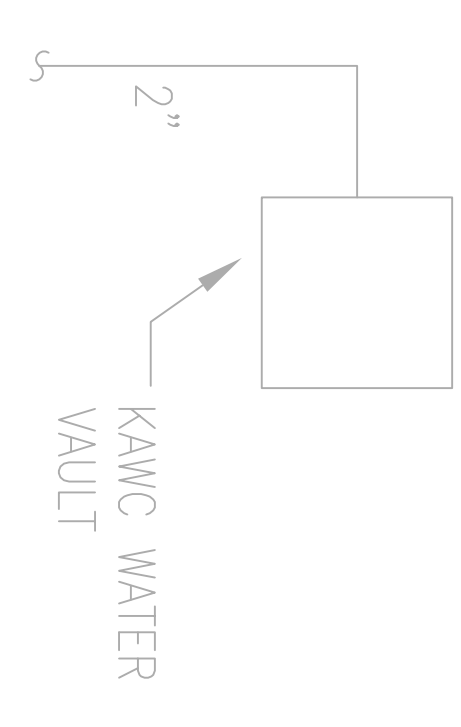
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CONNECT 1" WATER LINE TO RAINWATER TANK
 FROM VAULT. REFER OWN (S0190) FOR LINE
 LOCATION



EXP. 1" WATER PIPING TO
 RAIN WATER FILL CONNECTION

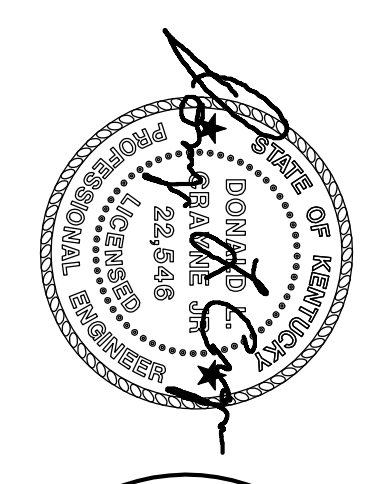
- NOTED NOTES:**
1. HOT & COLD WATER HOSE BIBB FOR WASHING ANIMALS.
 2. 1" REDUCE PRESSURE BACK FLOW PREVENTER TO SERVE EXTERIOR FOST HYDRAVITS.
 3. REFER TO SECOND FLOOR PLUMBING PLAN FOR FLOOR FINISHES.
 4. REFER ARENA WATER HEATER SCHEMATIC.
 5. WASTE PIPE UP TO PLUMBING EXHIDE ON SECOND FLOOR. REFER TO SECOND FLOOR PLUMBING PLAN FOR FINISHES.
 6. REFER TO SECOND FLOOR PLUMBING PLAN FOR CONTINUATION.
 7. SORT COPPER WATER SUPPLIES BELOW THE SLAB. INSTALL SO THAT NO JOINTS ARE BELOW THE SLAB.
 8. REMOVE WITH APPROPRIATE INSULATION INSTALLED ON BELOW SLAB PERMITS. REFER TO SECOND FLOOR PLUMBING PLAN FOR WASTE OR WATER TO THE FLOOR DRAIN. INSTALL THE TRAP PRIMER IN THE 2" COLD WATER MAIN.

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Record Documents Date: 02/29/2012

SHOW ARENA AND CLASSROOM – FIRST FLOOR PLUMBING PLAN

SCALE: 1/8" = 1'-0"



**SHOW ARENA AND CLASSROOM
 FIRST FLOOR PLUMBING PLAN**

FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

Tate·Hill·Jacobs: Architects

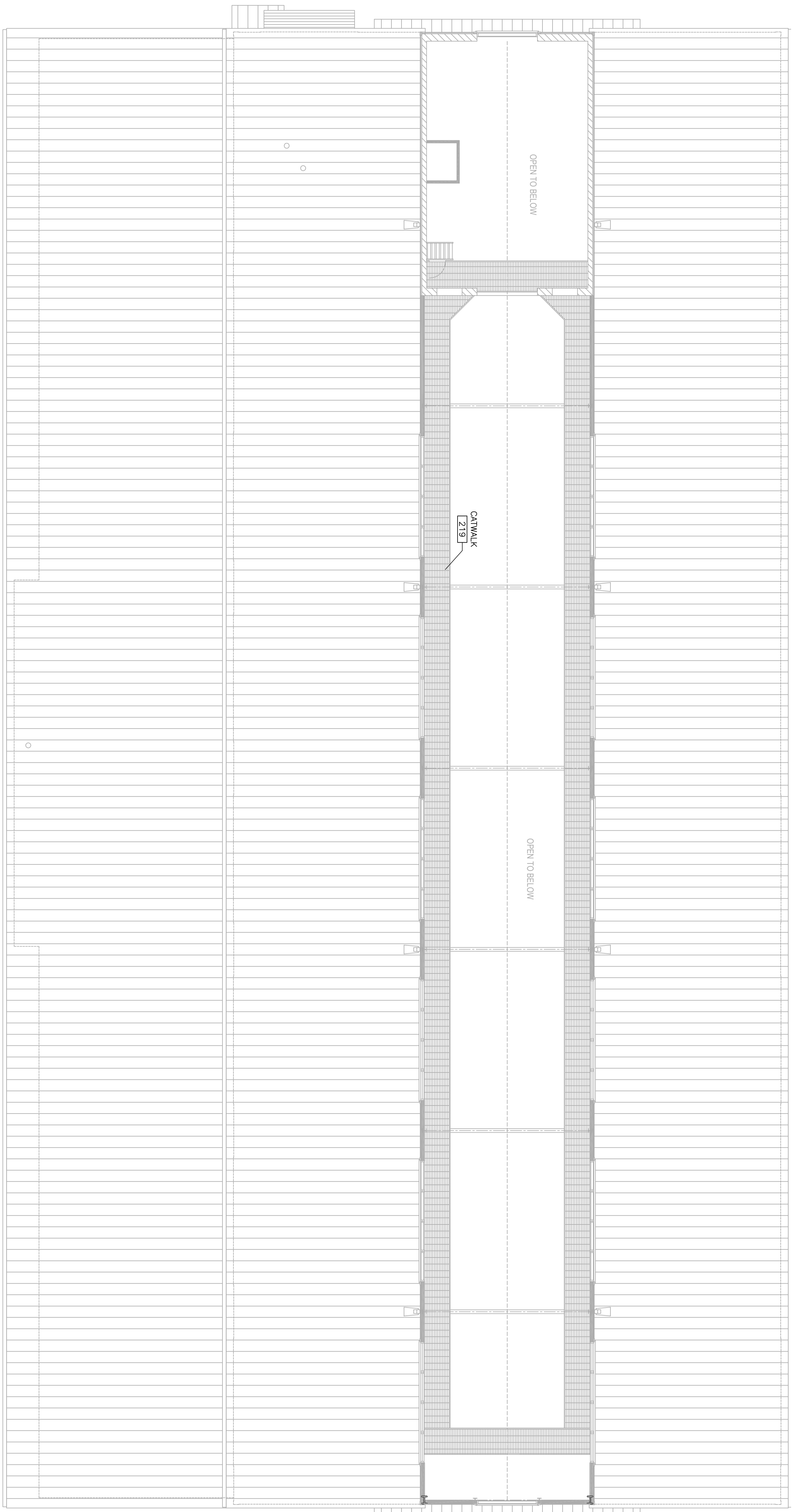
346 East Main Street • Lexington • Kentucky • 40507
 Telephone 859 • 252 • 5994 Facsimile 859 • 253 • 1607

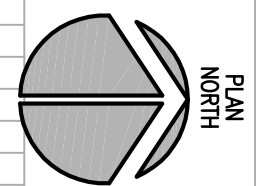
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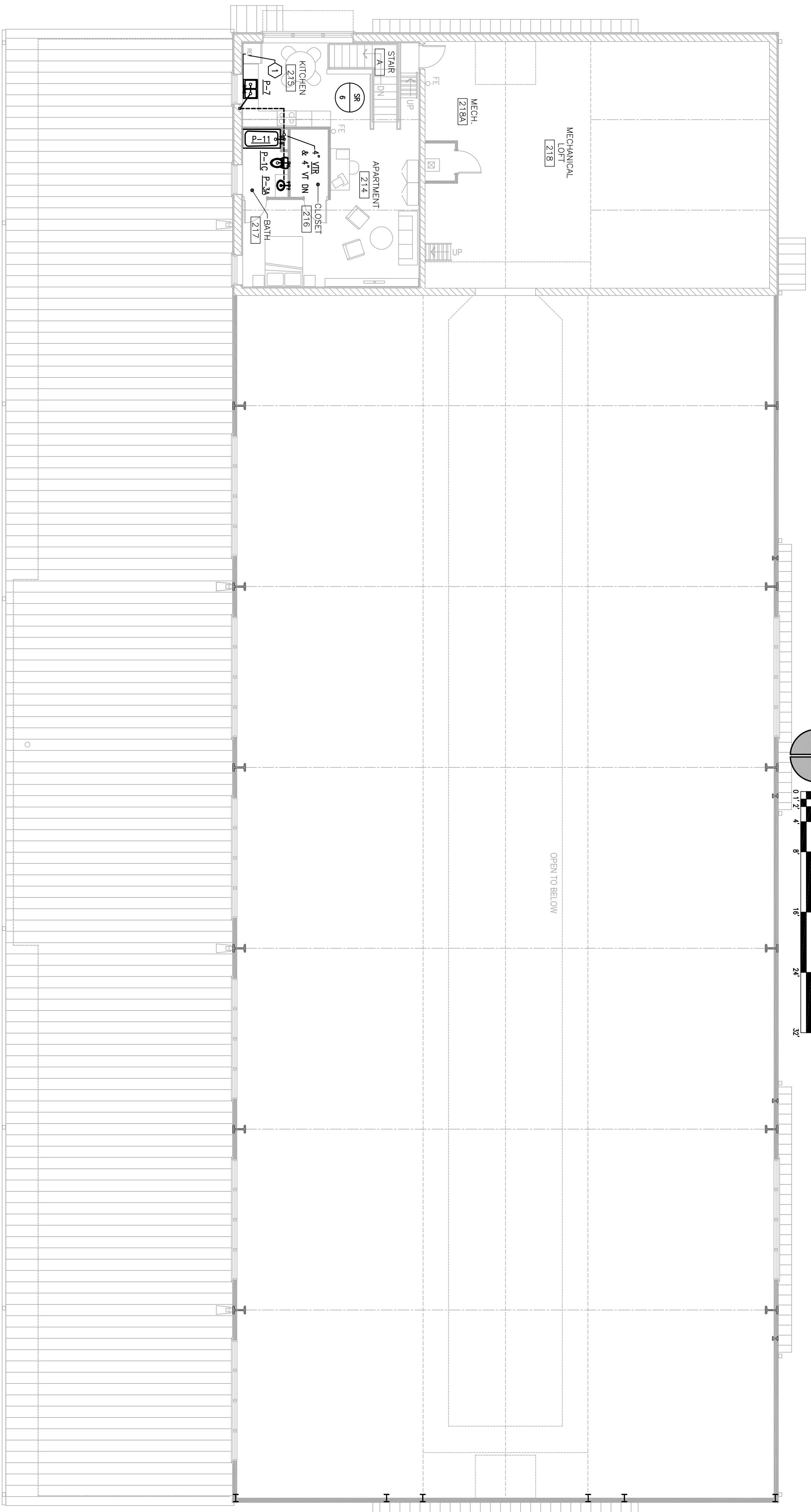
2365 Harrodsburg Rd.
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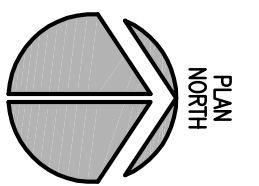
P2.1A

Proj. #: 0901/FAS09
 Date: 5/24/2010
 Drawn: RLB
 Checked: DC
 Revised:




 NORTH
 SCALE: 1/8" = 1'-0"
SHOW ARENA AND CLASSROOM – CLERESTORY PLUMBING PLAN




 NORTH
 SCALE: 1/8" = 1'-0"
SHOW ARENA AND CLASSROOM – SECOND FLOOR PLUMBING PLAN

- TAKEN NOTES:**
1. PROVIDE COLD WATER CONNECTION TO REFRIGERATOR ICE MAKE. PROVIDE SHUT-OFF VALVE. CHECK VALVE AND CONNECTION WORK.

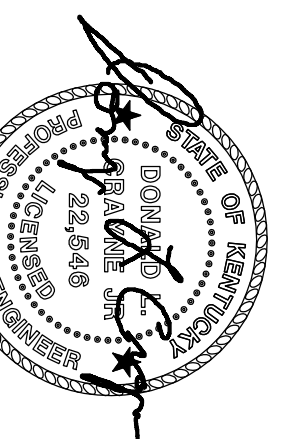
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SECOND/THIRD FLOOR PLUMBING PLAN
SHOW ARENA AND CLASSROOM

FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

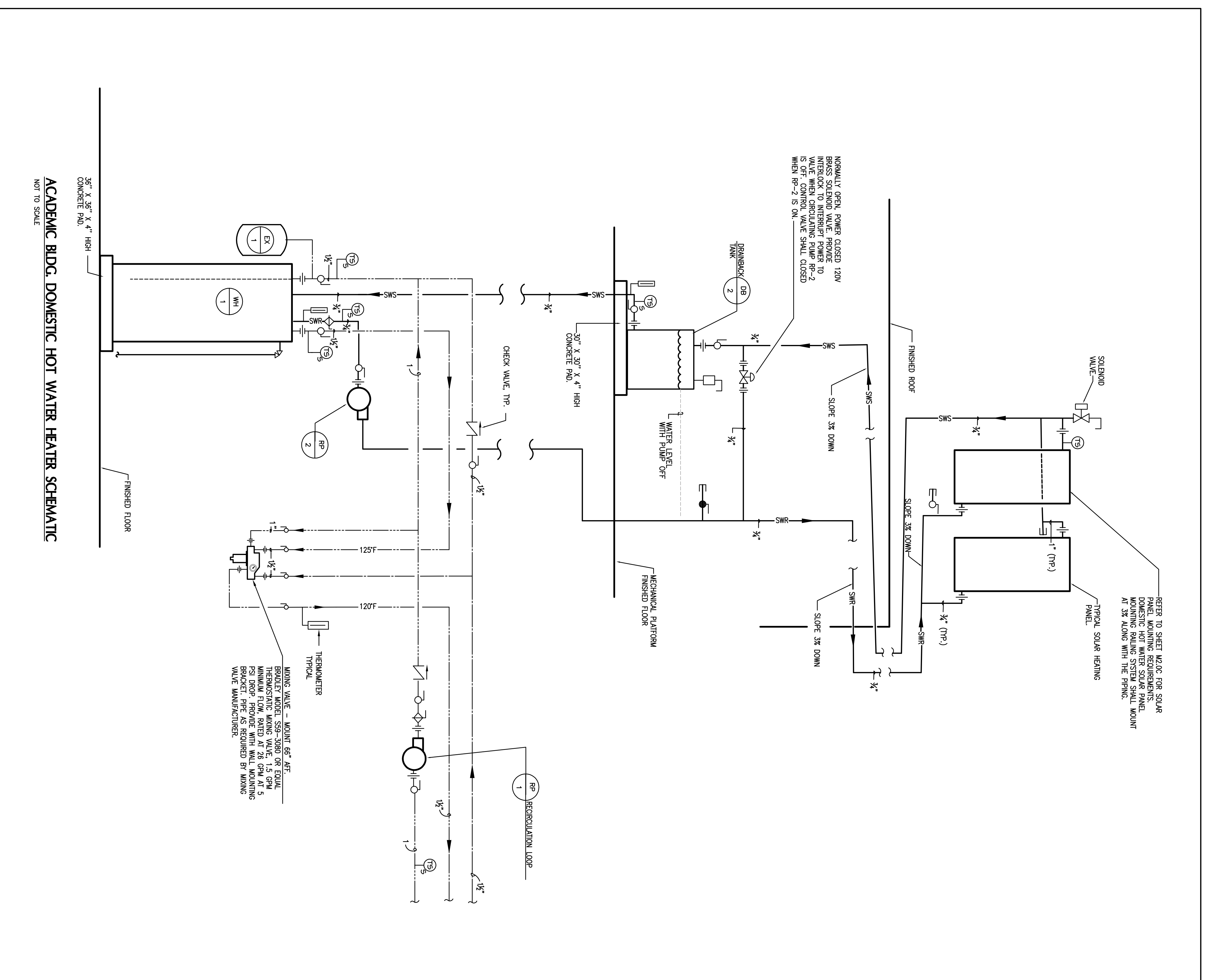
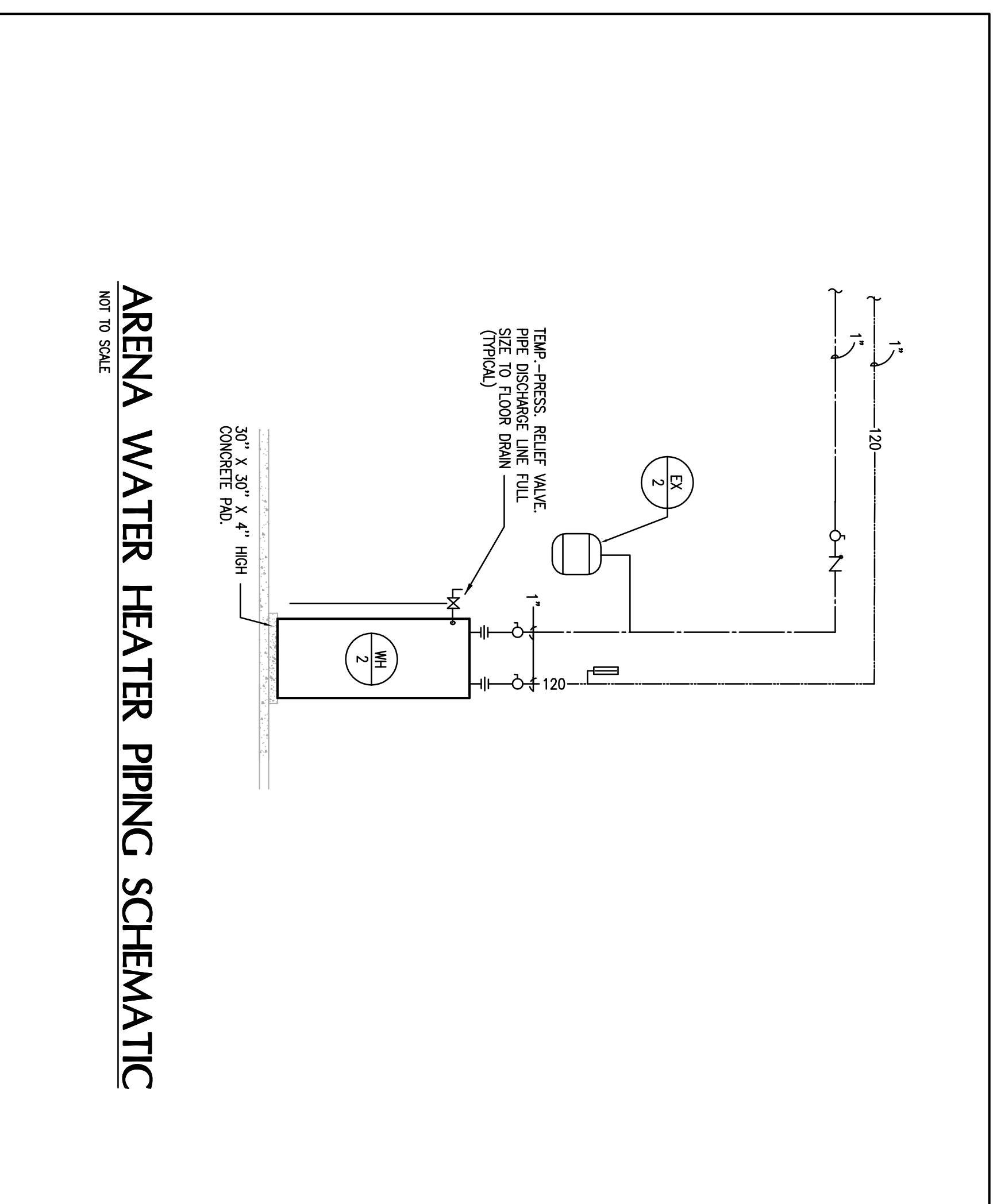
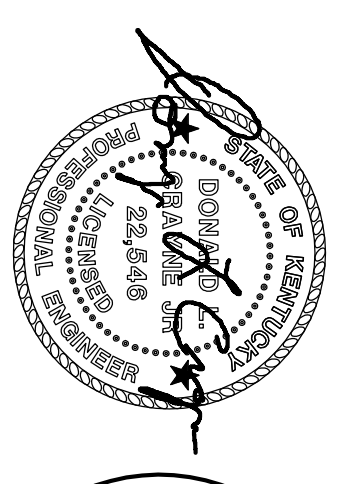
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P2.1B



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WATER HEATER AND STORAGE TANK SCHEDULE

MARK	MODEL	SERVICE	STORAGE (GAL)	HW	ELECTRICAL (VOLT/PH)	REMARKS
WH-1	FW120K	ACADEMIC BLDG. SOLAR (125°F)	120	4.5	208/1	1, 2, 3, 4
WH-2	LV068K4	ARENA BLDG. (120°F)	65	4.5	208/1	1, 2, 3, 4

NOTE: REFER TO SPECIFICATION SECTION 220300 - PLUMBING EQUIPMENT FOR MANUFACTURER INFORMATION.
 REMARKS:
 1. SINGLE POINT ELECTRICAL CONNECTION.
 2. ACCEPTABLE MANUFACTURERS ARE LOHMEIER, BRUNNED WHITE AND RHEEM.
 3. ACCEPTABLE MANUFACTURERS ARE LOHMEIER, BRUNNED WHITE AND RHEEM.
 4. CROSS-LINKED, JACKETED & INSULATED.

DOMESTIC HOT WATER RECIRCULATION PUMP SCHEDULE

MARK	MANUFACTURER MODEL	SERVICE	HP	HEAD LOSS (FT)	GPM	ELECTRICAL (VOLT/PH)	REMARKS
RP-1	P1-30	BUILDING RECIRC.	1/12	15	10	115/1	1, 2, 3
RP-2	UP-159	SOLAR LOOP	1/12	5	3	115/1	1, 2, 3

NOTE: REFER TO SPECIFICATION SECTION 220300 - PLUMBING EQUIPMENT FOR MANUFACTURER INFORMATION.
 REMARKS:
 1. PUMP IS CONTROLLED BY BUILDING AUTOMATION SYSTEM.
 2. REFER TO MECHANICAL SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS AND ADDITION INFORMATION.
 3. REVIEW CONSTRUCTION FOR OVERSIC WATER USE.

DRAINBACK TANK

TAG	DB-2
MODEL	GBT 15 SS
GALLONS STORAGE	15

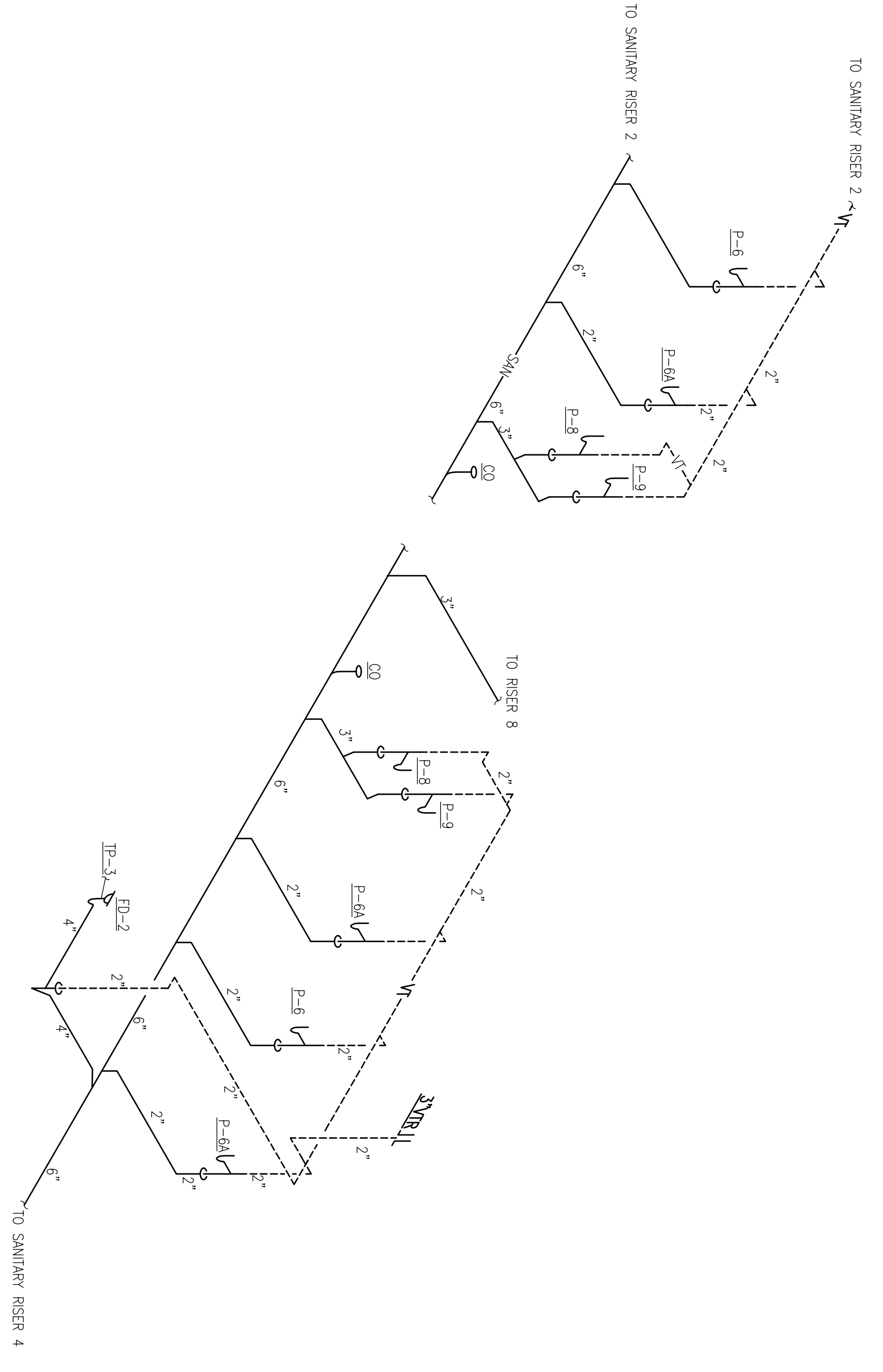
NOTE: REFER TO SPECIFICATION SECTION 220300 - HVAC EQUIPMENT FOR MANUFACTURER INFORMATION.
 REMARKS:
 1. 316 STAINLESS STEEL CONSTRUCTION.
 2. R-17.5 FOAM INSULATION.
 3. 1/2\"/>

EXPANSION TANKS

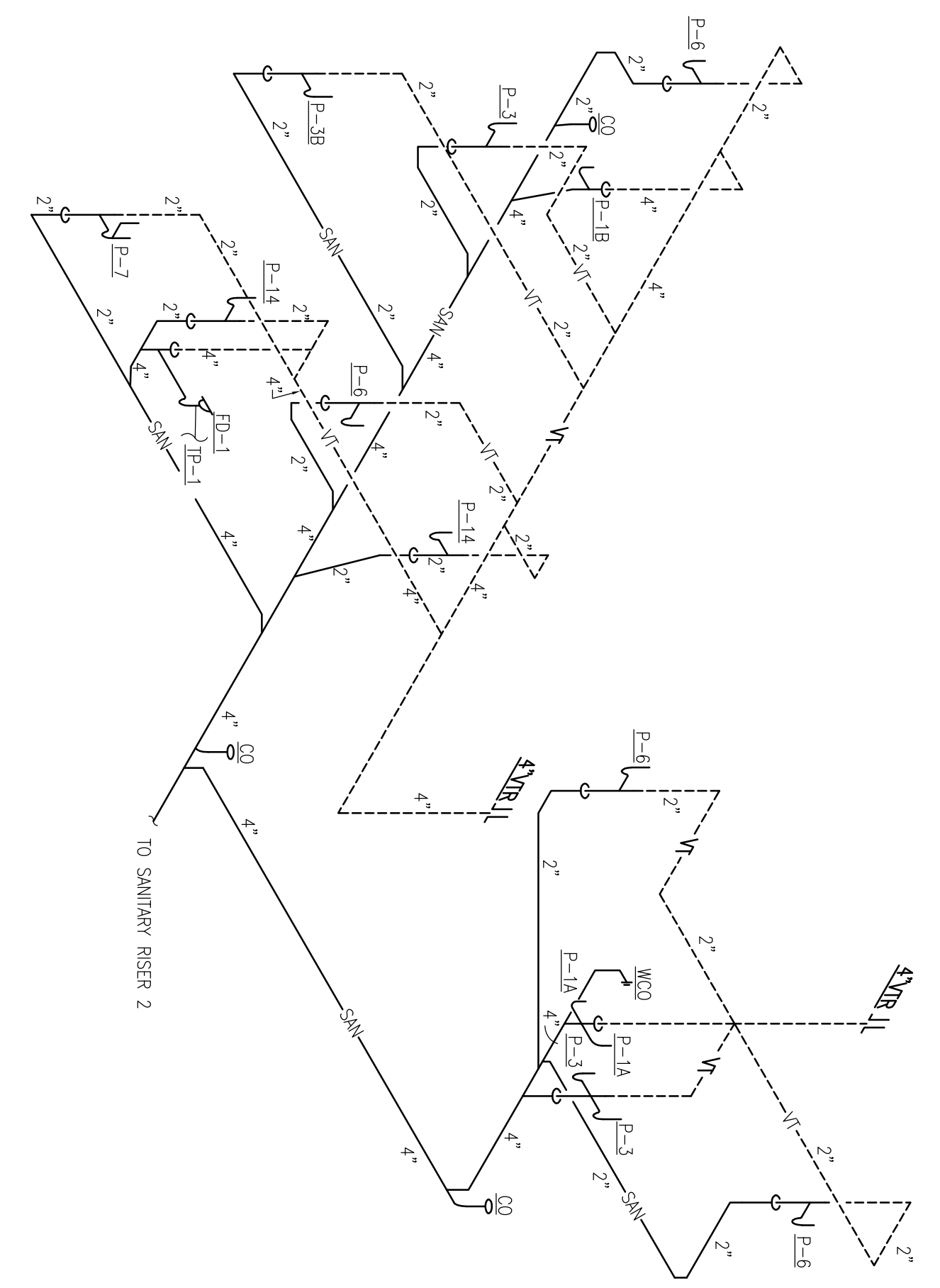
MARK	MANUFACTURER MODEL	SERVICE	VOLUME (GAL)
EX-1	ST-12V	WH-1	4.4
EX-2	ST-5V	WH-2	2.0

NOTE: REFER TO SPECIFICATION SECTION 220300 - PLUMBING EQUIPMENT FOR MANUFACTURER INFORMATION.

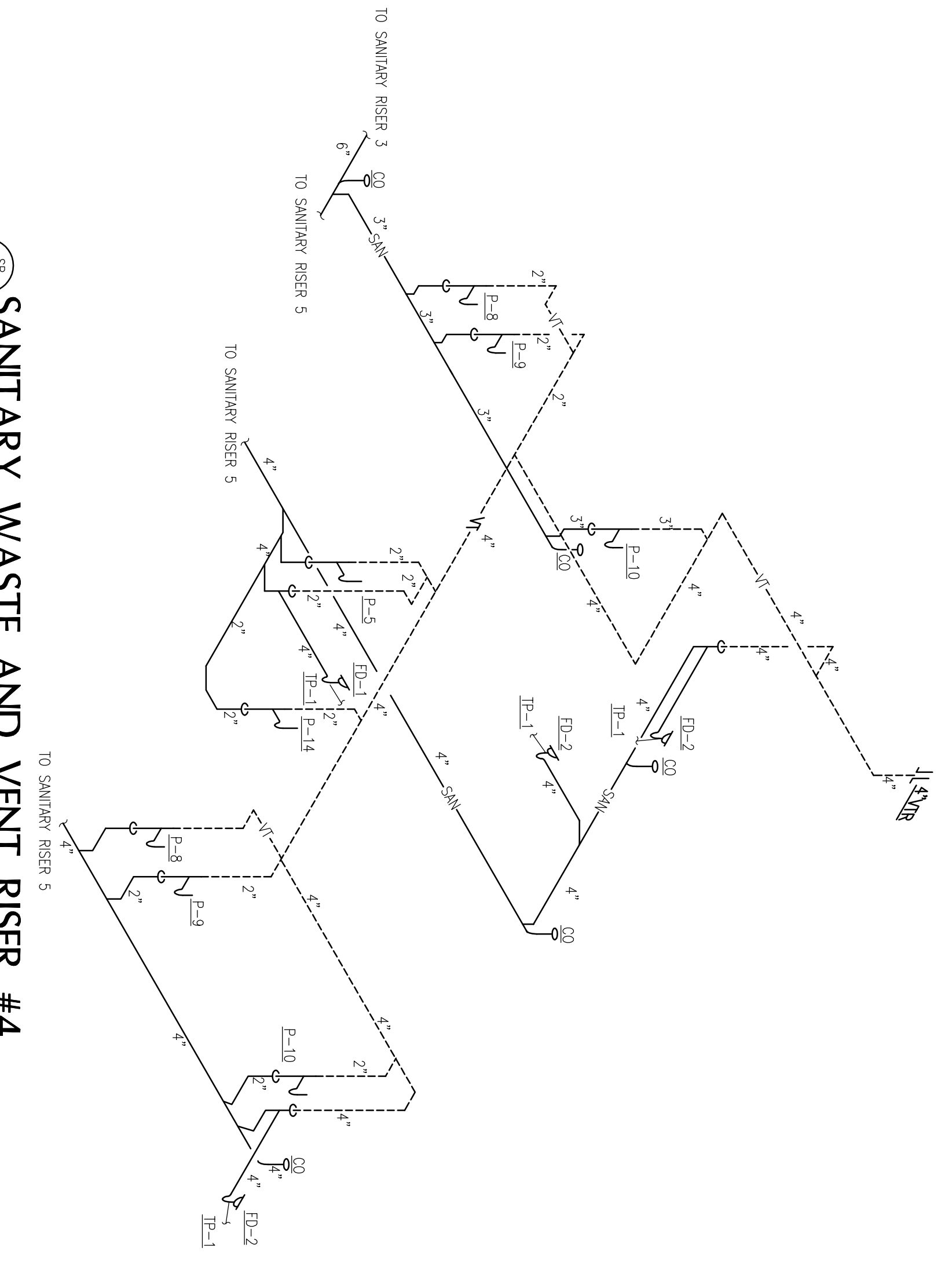
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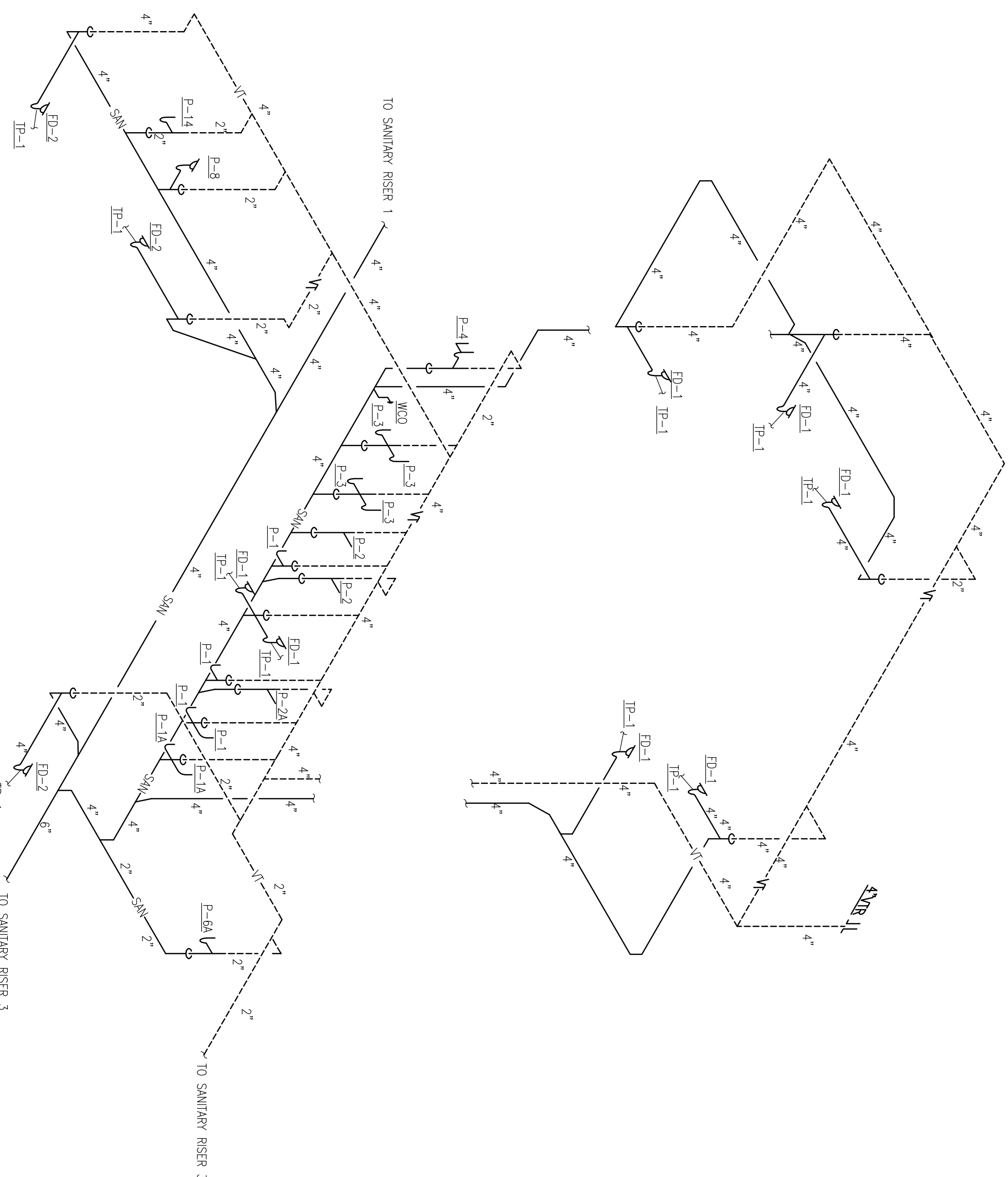
38 SANITARY WASTE AND VENT RISER #3
1 NOT TO SCALE



38 SANITARY WASTE AND VENT RISER #1
1 NOT TO SCALE

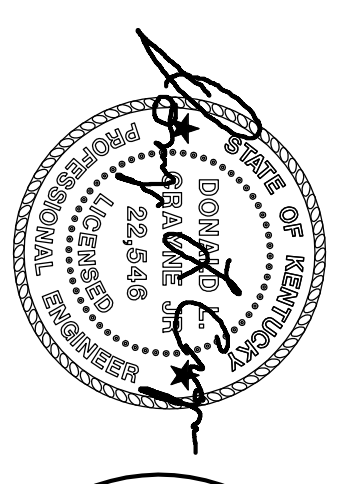


38 SANITARY WASTE AND VENT RISER #4
4 NOT TO SCALE



38 SANITARY WASTE AND VENT RISER #2
2 NOT TO SCALE

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P5.0

Proj. #: 0901FAS09
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PLUMBING RISERS
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

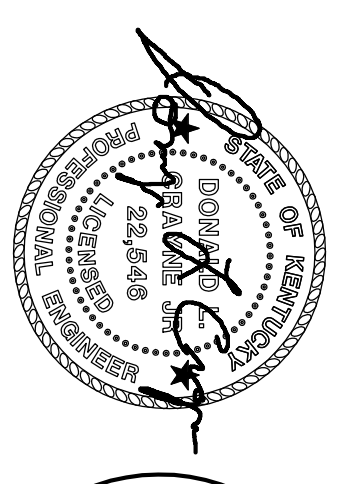
GENERAL NOTES

- COORDINATE THE LOCATION OF GRANS, THERMOSTATS, ETC. WITH ALL OSWORNK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENSAL INSTALLATION. WORK NOT SO COORDINATED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND FINISHED INSTALLED AT THE EXPENSE OF THE OWNER.
- ALL NEW WORK SHALL BE BOUND FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES.
- COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- OBSEVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- ALL PENETRATIONS OF FHE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED INSULATED FRINGE PENETRATIONS.
- ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINING IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
- LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
- INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF IN CONFLICT WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, CONSULT WITH THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- SEAL AIRGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION, SEAL ALL NEW DUCTWORK JOINTS WITH UNFED WOOD, BONGSPR 601 OR EQUAL WATER BASED SEALANT.
- ALL WATER PIPING EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE CAREFUL TO AVOID ANY EXISTING EQUIPMENT APERTURES, ETC., THAT CONFLICT WITH NEW WORK.
- WHERE MOUNTING HEIGHTS ARE NOT NOTICED OR ARE IN CONFLICT WITH EXISTING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE CONDITIONS.
- DOUBLE WITH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS.
- ANY VARIATION, OCSILLATING OR OTHER NOISE OR VIBRATION PRODUCING EQUIPMENT SHALL BE IDENTIFIED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CORRECTING SUCH CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CORRECTING SUCH CONDITIONS. THE CONTRACTOR'S DESIGN SHALL BE RESPONSIBLE FOR IDENTIFYING AND CORRECTING SUCH CONDITIONS. THE CONTRACTOR'S DESIGN SHALL BE RESPONSIBLE FOR IDENTIFYING AND CORRECTING SUCH CONDITIONS.
- DEVIATIONS IN SIZE, CHARACTER, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE APPROVED BY THE ENGINEERS OR NOT. SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED MAINTENANCE AND ADJUSTMENT APPROXIMATELY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- ALL WANNERS, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

SYMBOLS AND ABBREVIATIONS

	SUPPLY DIFFUSER	AFS	ABOVE FINISHED FLOOR
	RETURN GRILLE	AFR	ABOVE FINISHED ROOF
	RETURN GRILLE	CD	CONDENSATE DRAIN
	SLOT DIFFUSER	FD	FIRE DAMPER
	SUPPLY AIR DUCT	ID	INSIDE DIMENSION
	RETURN AIR DUCT	ND	NOMINALLY CLOSED
	OUTSIDE AIR DUCT	NO	NOT IN CONTACT
	EXHAUST AIR DUCT	NS	NOMINALLY OPEN
	VOLUME DAMPER	NS	NOT TO SCALE
	EXHAUST AIR DUCT TURNING UP (SIMILAR FOR OTHER DUCT TYPES)	OD	OUTSIDE DIMENSION
	EXHAUST AIR DUCT TURNING DOWN (SIMILAR FOR OTHER DUCT TYPES)	OFD	OWNER FINISHED, CONTRACTOR INSTALLED
	WATERCOOLED DAMPER	OFDI	OWNER FINISHED, OWNER INSTALLED
	FLEXIBLE DUCT	FSI	FOUNDS PER SQUARE INCH
	THERMOSTAT, TEMPERATURE SENSOR	FS	FIRE DAMPER
	CONDENSATE DRAIN	TE	TYPICAL
	HEAT PUMP RETURN	TP	TYPICAL
	HEAT PUMP SUPPLY	UN	UNLESS OTHERWISE NOTED
	HOT WATER RETURN	VA	VARIABLE AIR VOLUME BOX
	HOT WATER SUPPLY	VF	VARIABLE FREQUENCY DRIVES
	SOLAR WATER RETURN		
	SOLAR WATER SUPPLY		
	FIRE/SMOKE DAMPER WITH ACCESS DOOR		
	SMOKE DAMPER WITH ACCESS DOOR		
	PIPE ELBOW TURNING UP/TURNING DOWN		
	AIR DISTRIBUTION DEVICE (RESISTOR)		
	CONTROL VALVE (S-M)		
	TWO WAY CONTROL VALVE (CONTROL VALVE (S-M))		
	CONTROL VALVE (S-M)		
	BUTTERFLY VALVE		
	TRIPLE DUTY VALVE		
	UNION		
	PETCO'S PLUG		
	CHECK VALVE		
	DOUBLE CHECK VALVE ASSEMBLY		
	STRAINER		
	O.S. & Y. VALVE (GATE)		
	BALL VALVE		
	SAFETY RELIEF VALVE		
	MANUAL AIR VENT (AUTOMATIC AIR VENT WITH CIRCLE)		
	PUMP SECTION DIFFUSER		
	THERMOSTAT		
	ACCESS DOOR IN BOTTOM OF DUCT		
	ACCESS DOOR IN SIDE OF DUCT		
	PIPING TEE (TURNED UP/DOWN)		
	MECHANICAL EQUIPMENT RESISTOR		
	CEILING FAN CONTROLLER		
	CARBON DIOXIDE SENSOR		
	OCCUPANCY SENSOR		
	PRESSURE SENSOR		

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS NECESSARILY USED ON THIS PROJECT.



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MECHAICAL LEGEND
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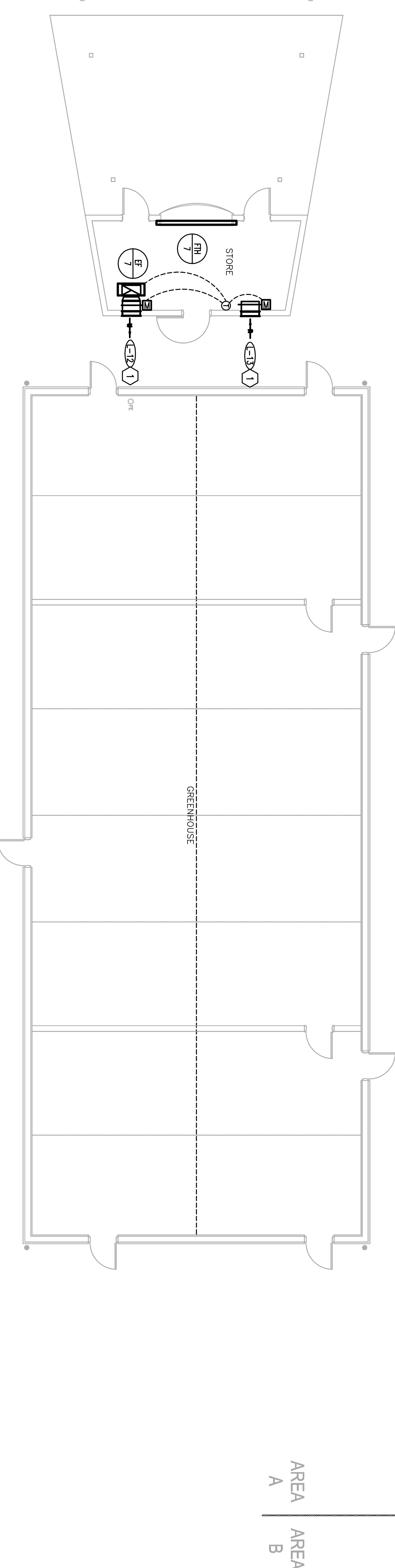
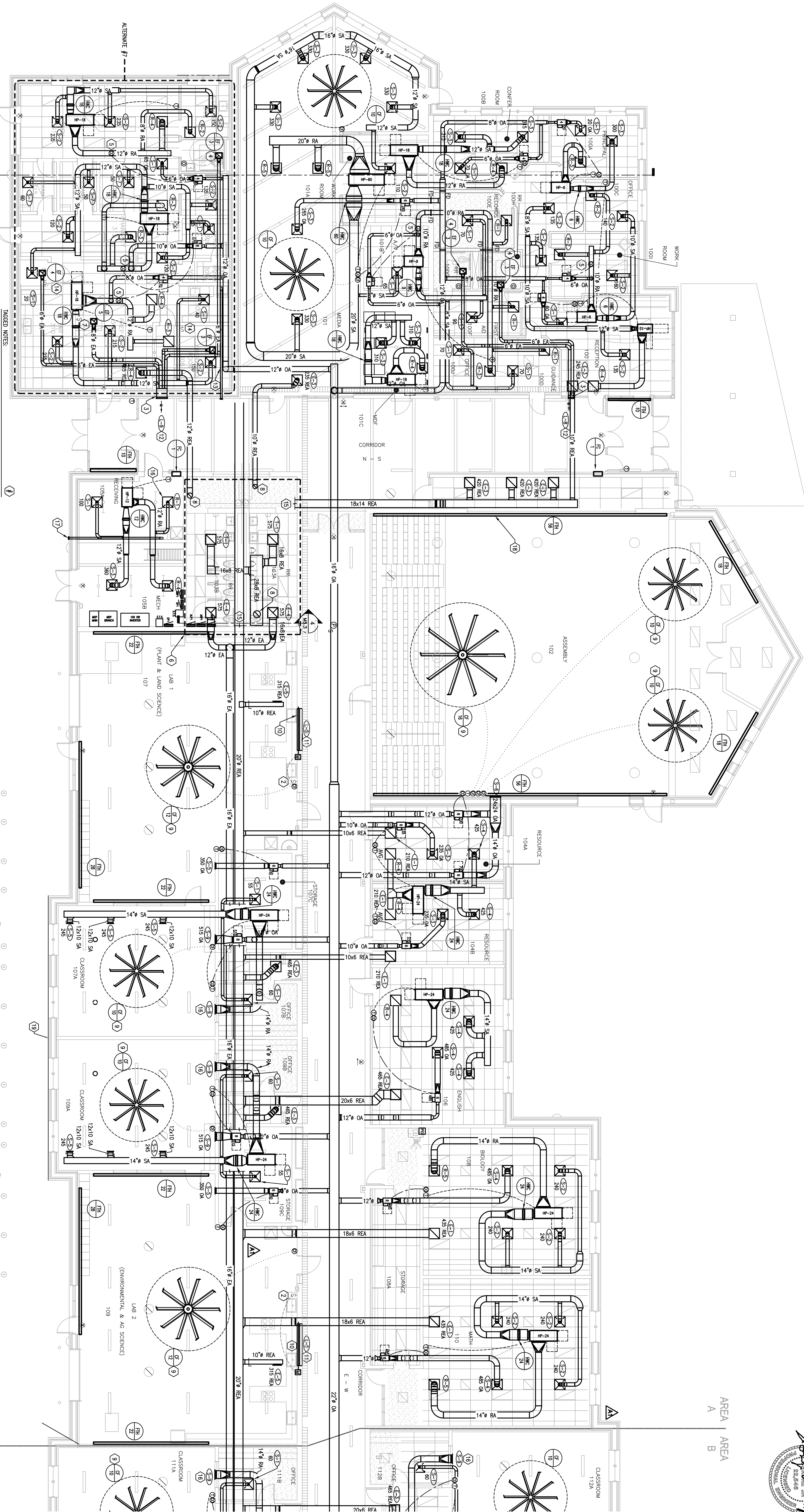
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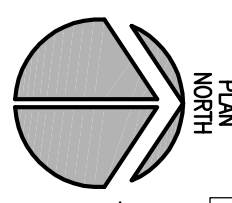
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SUSTAINABILITY DESIGN TEMPERATURES	
LAB DESIGN	60°F HEATING NO COOLING
LAB CLASSROOM	60°F HEATING 60°F COOLING
ADMINISTRATION DESIGN	70°F HEATING 70°F COOLING
BIOLOGY/MATH/ENGINEERING/RESOURCE DESIGN	70°F HEATING 70°F COOLING
GREENHOUSE	70°F MIN HEATING NO COOLING

- TAGGED NOTES:**
1. MOUNT BOTTOM OF LOUVER AT 8'-0" A.F.F.
 2. PROVIDE WALL SWITCH FOR MOTORIZED DAMPER OPERATION.
 3. FILL SIZE EXHAUST AIR PERMANENT 2" REEF SLOPE BOTTOM OF PLUMBING RUN TO STREET WASTEWATER TO GRAVE.
 4. OCCUPANCY SENSOR TURNS ON & OFF EXHAUST FAN.
 5. CO2 SENSOR MOUNTED INSIDE RA DUCT.
 6. MECHANICAL PARTIAL. REFER TO ENLARGED MECHANICAL PLATFORM PLAN "X" FOR DETAILS.
 7. REVERSE MANUAL SWITCH FOR OPERATION OF EXHAUST FAN MOUNT ON SITE WALL.
 8. DUCT UP TO MECHANICAL PLATFORM. REFER TO MECHANICAL PLATFORM PLAN "X" FOR CONNECTION.
 9. PROVIDE SUPPORT FOR CEILING FANS.
 10. PROVIDE EXPANDED METAL FACE ON INTERIOR WALL OF LOUVER OPENING.
 11. MOUNT LOUVER AT 15'-4" AFF TO BOTTOM OF LOUVER.
 12. REFER TO ARCHITECTURAL PLANS FOR PLACEMENT OF LOUVER PENETRATION.
 13. 4" DRAIN VENT. PROVIDE WALL CAP AT EXTERIOR WALL PENETRATION.
 14. PROVIDE WALL MOUNTED MANUAL SWITCH FOR OPERATION OF EXHAUST FAN.
 15. REFER TO ENLARGED MECHANICAL PLATFORM PLAN "X" FOR CONNECTION.
 16. USE SUPPLY AIR GRILLE FOR RETURN AIR GRILLE WIDTH A.F.F. HEIGHT OF OAK GRILLE ON ADJACENT WALL.
 17. 4" DRAIN VENT. PROVIDE WALL CAP AT EXTERIOR WALL PENETRATION.
 18. ASSEMBLY 102. PROVIDE AND INSTALL A TYPICAL SWITCH WHICH WILL CONTROL THE FAN. THE SWITCH SHALL BE MOUNTED ON THE ASSEMBLY SPACE. LOCATE THE SWITCH ON THE SOUTHWEST WALL OF THE ROOM ADJACENT TO THE FAN CONTROL SWITCHES.
 19. PROVIDE 3" CONTROL WIRING CONDUIT IN CLASSROOM EXTERIOR WALL. BELOW GRADE. OUT TO GREENHOUSE.



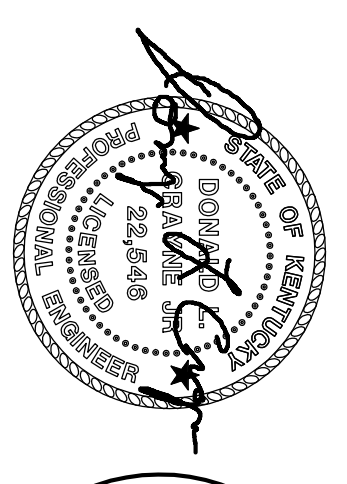

ACADEMIC CLASSROOM BUILDING FLOOR PLAN – AREA A HVAC
 SCALE: 1/8" = 1'-0"
 0 1 2 4 8 16 24 32
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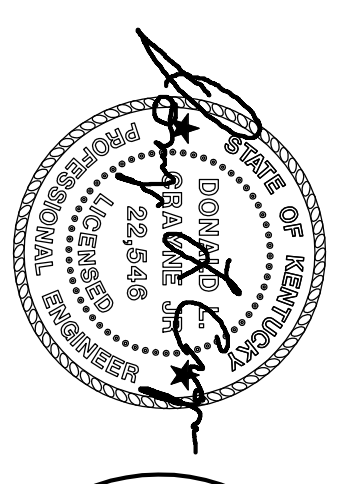
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 Date: 5/24/2010
 Drawn: KRK
 Checked: DC
 Revised:

ACADEMIC CLASSROOM BUILDING
AREA "A" HVAC PLAN
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
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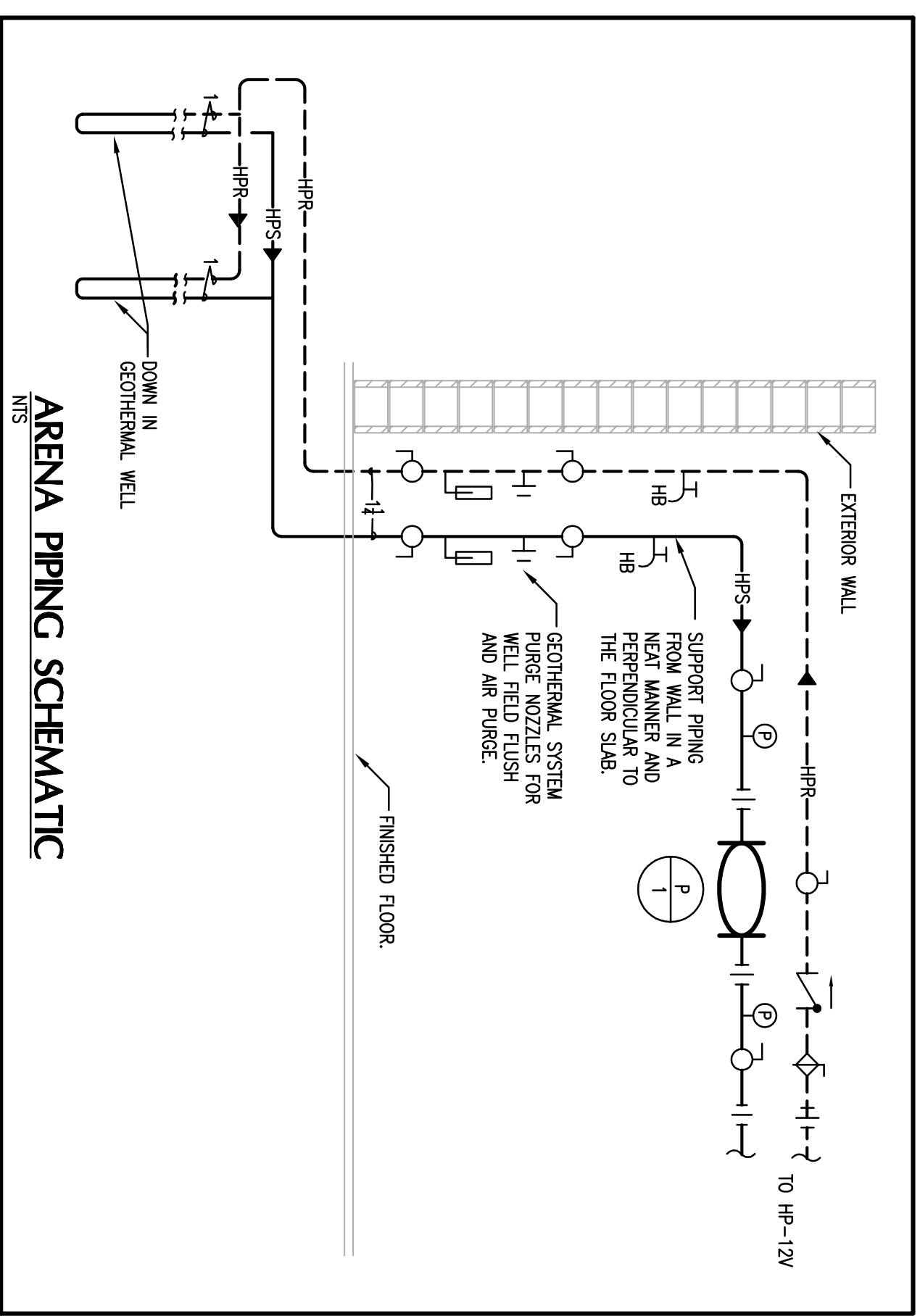
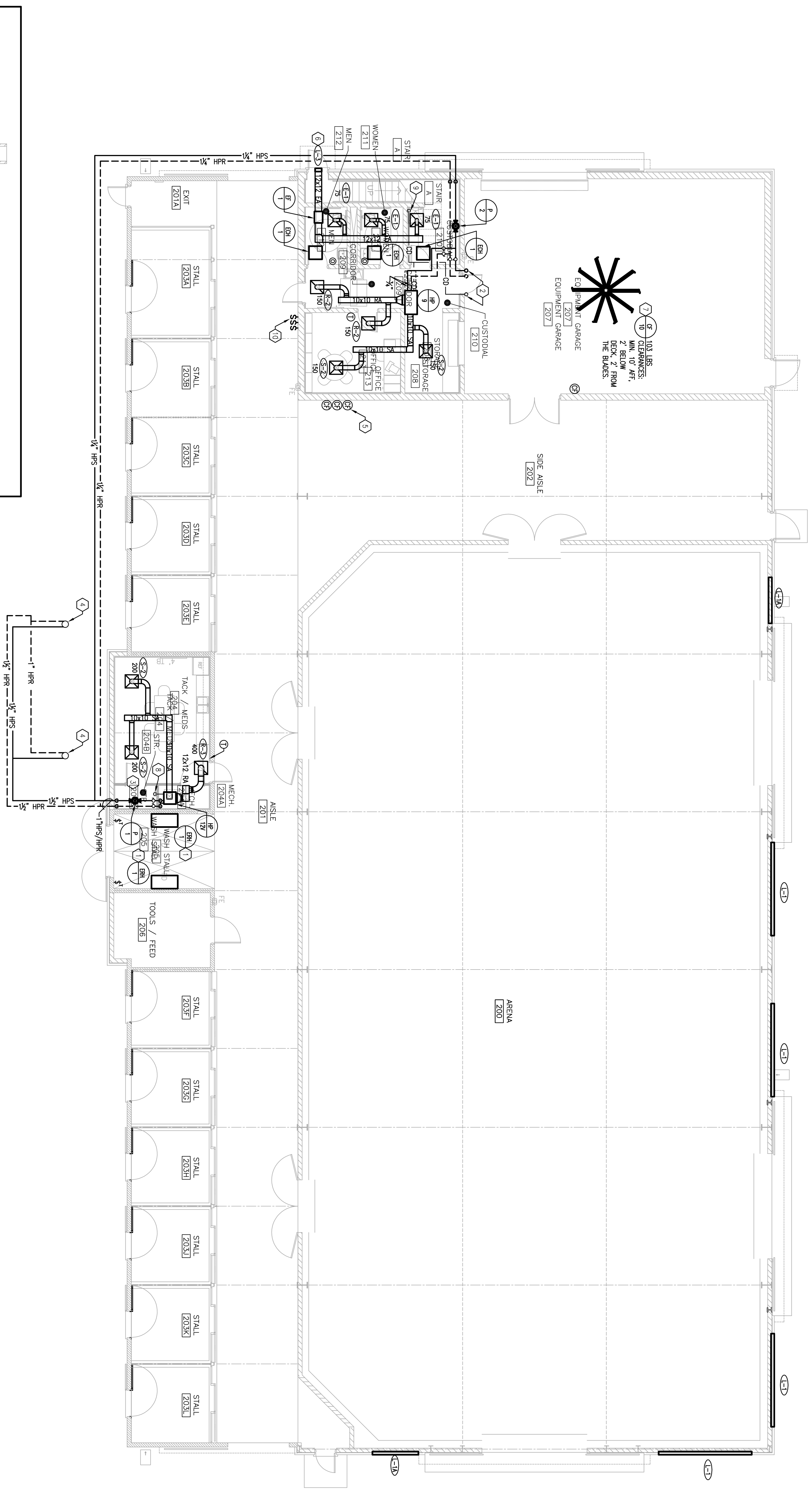
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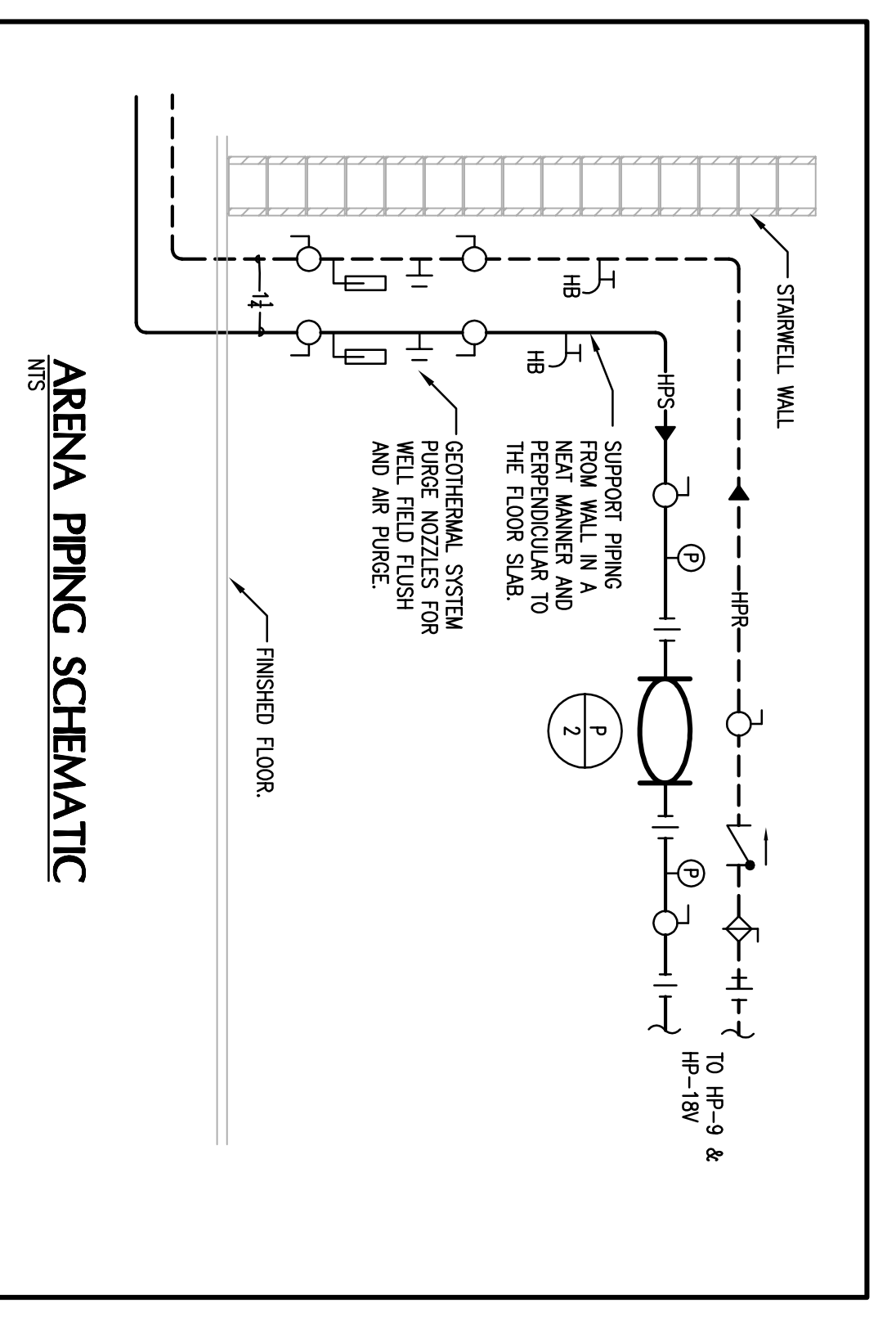
**FIRST FLOOR HVAC PLAN
 SHOW ARENA AND CLASSROOM**
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
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Proj. #: 0901FAS09
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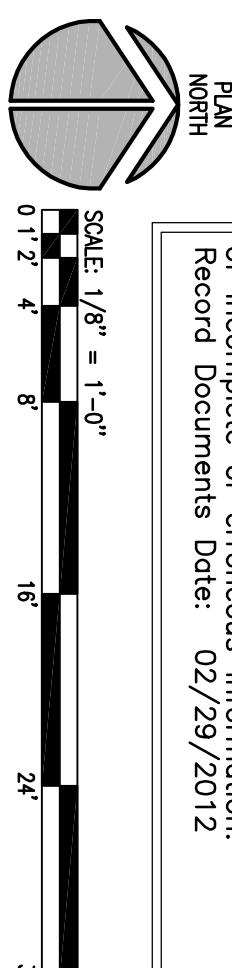
- NOTED NOTES:**
1. MOUNT ELECTRIC MOUNT HEATER ON WALL. HOLD HEATER AS HIGH UP ON WALL AS POSSIBLE.
 2. 1" HPS/HFR AND 1" CO PIPING UP TO THE SECOND FLOOR MECH ROOM.
 3. 1/2" HPS/HFR PIPING DOWN UNDERSLAB AND OUT TO GEOTHERMAL WELL-FIELD. PROVIDE SHUT-OFF VALVES, PRESSURE AND PIRCE NOZZLES ON BOTH SLOPE AND RETURN PIPES.
 4. TWO 300"-Ø FOOT DEEP GEOTHERMAL WELLS 20'-Ø" ON CENTERS.
 5. PROVIDE CLEAR PLASTIC LOCKABLE COVER FOR CIRCULATION FAN CONTROLS.
 6. MOUNT LOWER AT 10'-3" AFF TO BOTTOM OF LOWER.
 7. SUPPORT CEILING FANS FROM STRUCTURE.
 8. PANS FOR TACK DRAIN LOCATION. REFER TO PLUMBING.
 9. SMALL CONDENSATE TO MOP SINK.
 10. ON/OFF SWITCHES THAT CONTROL AUTORIZED DAMPERS ASSOCIATED WITH L-2, E-2A, AND E-2B.

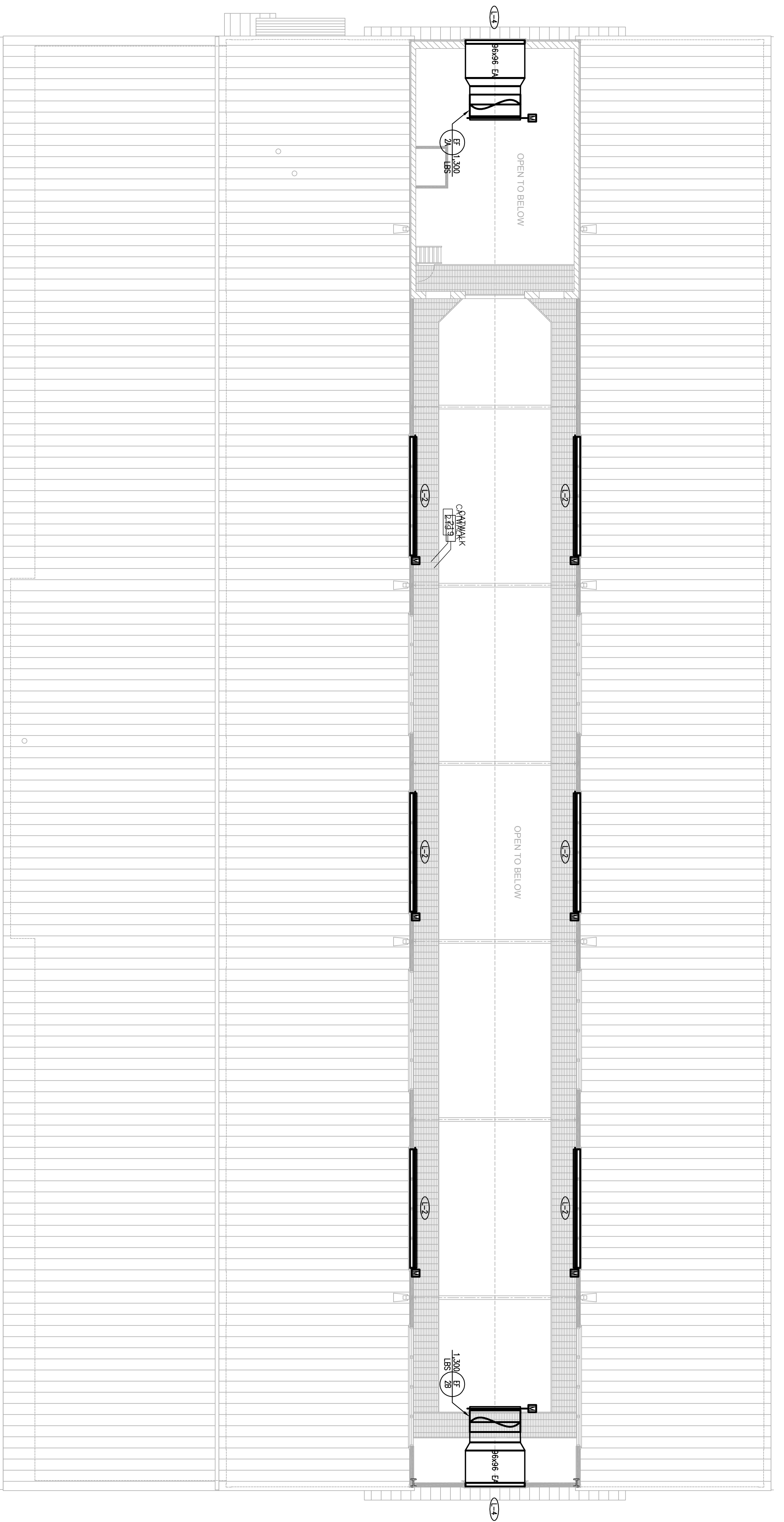
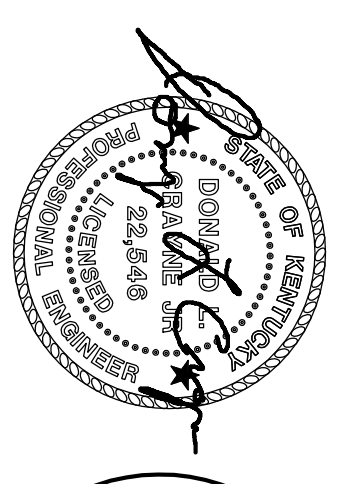


SUSTAINABILITY DESIGN TEMPERATURES

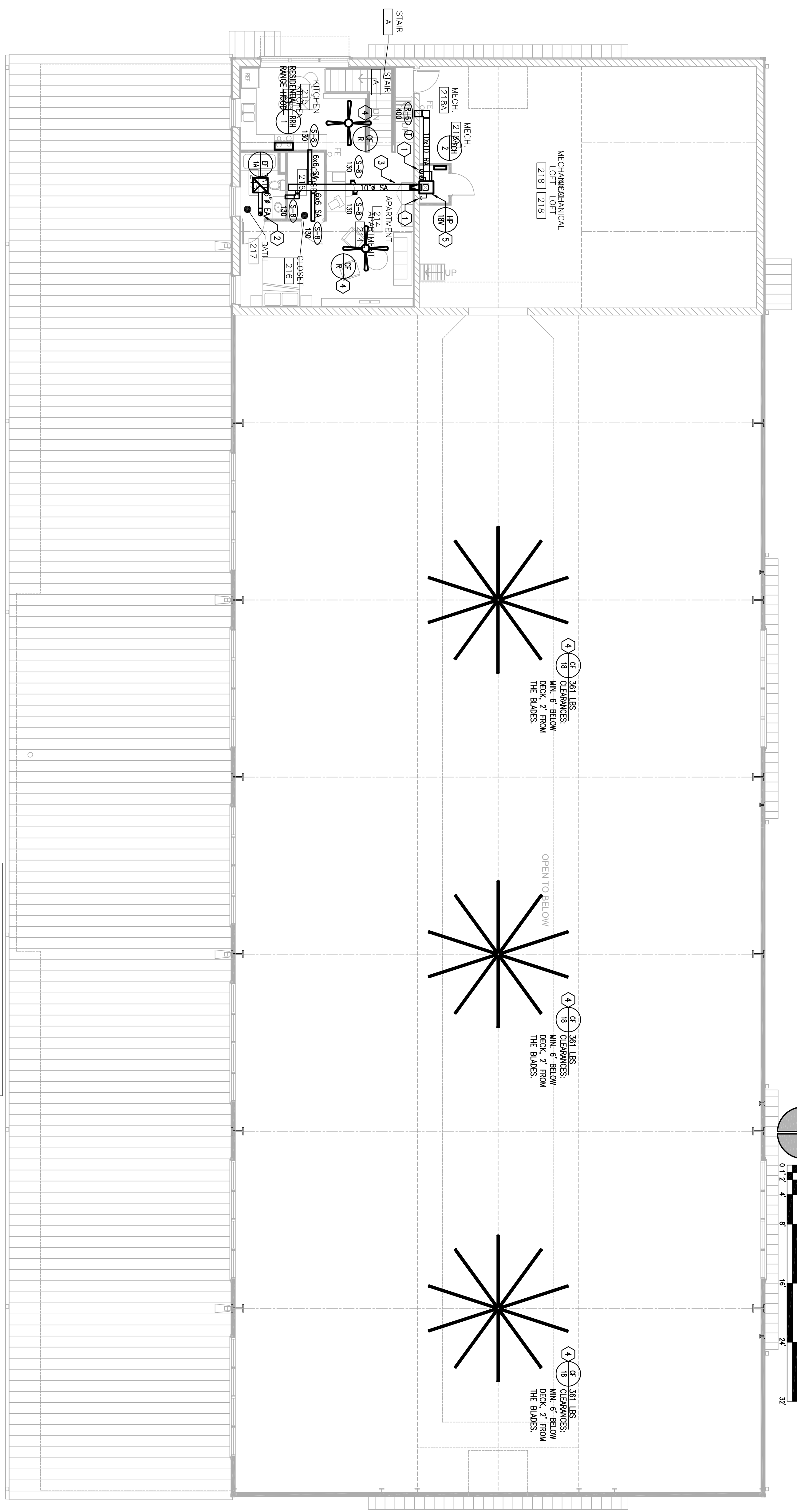
TACK/MEETS ROOM	60°F HEATING 60°F COOLING
APARTMENT	70°F HEATING 74°F COOLING
ADMINISTRATION DESIGN	60°F HEATING 60°F COOLING
ARENA	NO HEATING NO COOLING

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SHOW ARENA AND CLASSROOM – CLERESTORY HVAC PLAN



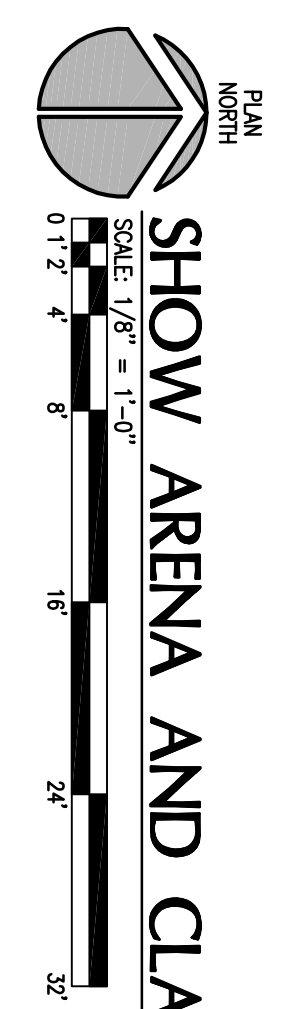
SHOW ARENA AND CLASSROOM – SECOND FLOOR HVAC PLAN

SUSTAINABILITY DESIGN TEMPERATURES

TRUCK/WEIS ROOM	66°F HEATING 81°F COOLING
APARTMENT	70°F HEATING 74°F COOLING
ADMINISTRATION DESIGN	66°F HEATING 81°F COOLING
ARENA	NO HEATING NO COOLING

- TABLED NOTES:**
1. 1" HPS/HPF AND 1" CO PIPING DOWN TO FIRST FLOOR SPACE.
 2. EXTEND 6" EA. DUCTWORK UP THROUGH ROOF. SEAL GRANTY BACKDRAFT DAMPER UNIT. PROVIDE RAIN CAP AND SUPPORT CEILING FANS FROM STRUCTURE.
 3. REFER TO SPECIFICATIONS FOR DETAILS.
 4. PROVIDE 4" HIGH CONCRETE MAINTENANCE PAD 4" WIDER THAN UNIT ON ALL SIDES.

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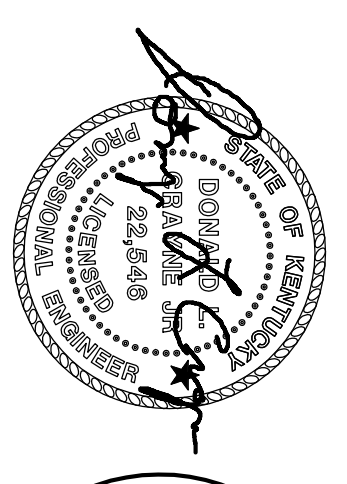
M2.1B

SECOND/THIRD FLOOR HVAC PLAN
SHOW ARENA AND CLASSROOM

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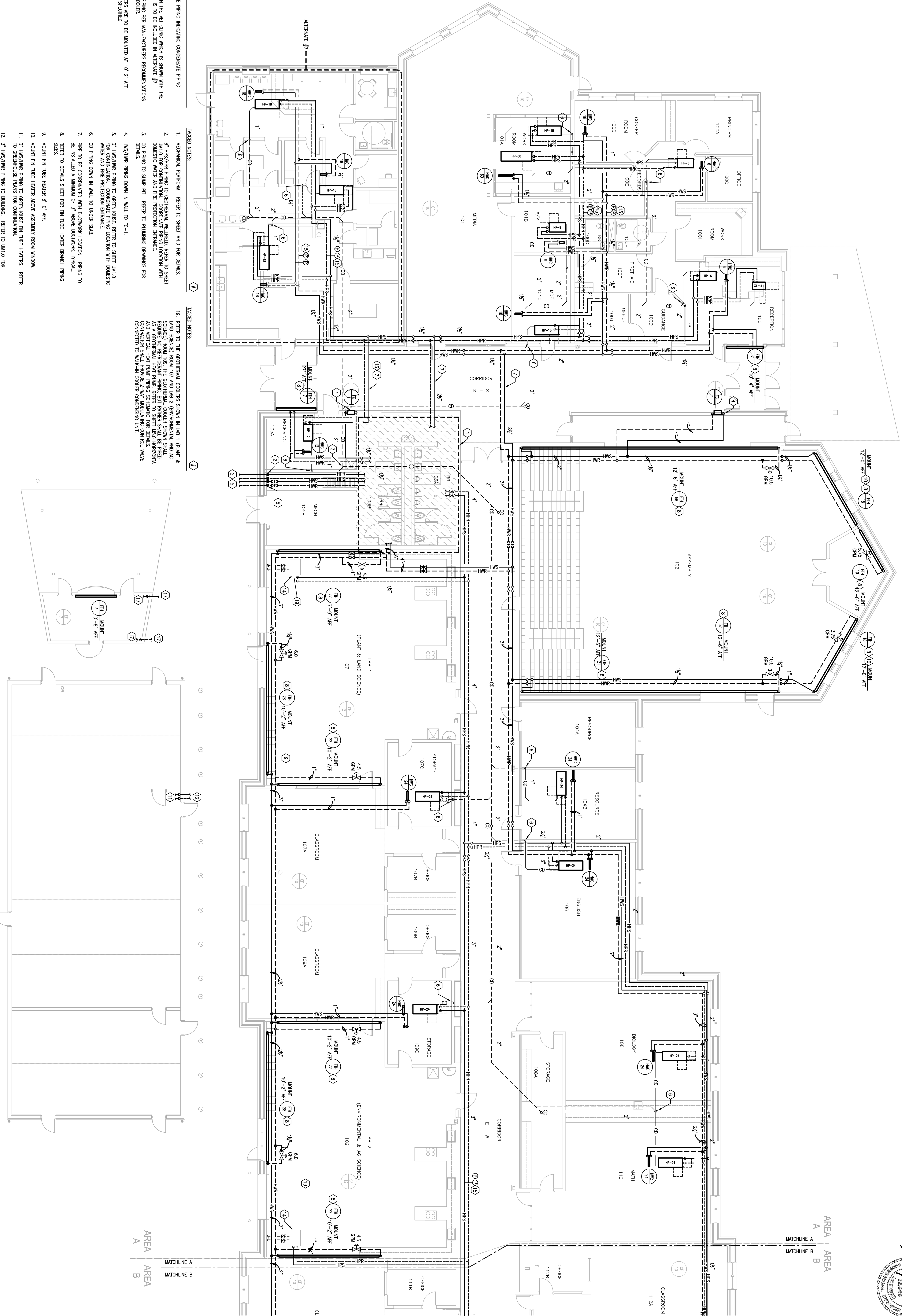
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**ACADEMIC CLASSROOM BUILDING
 AREA "A" HYDRONIC PIPING PLAN**
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

Proj. #: 0901/FAS09
 Date: 5/24/2010
 Drawn: DGC
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M3.0A



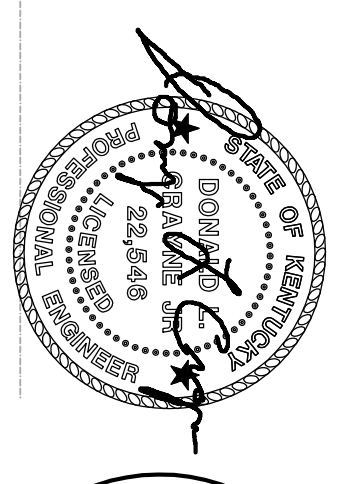
- GENERAL NOTES**
- DESIGN CONDENSATE PIPING INDICATING CONDENSATE PIPING UNDERSLAB.
 - ALL WORK SHOWN IN THE LEFT COLUMN SHALL BE SHOWN WITH THE HEAVY DASHED LINE. IT IS TO BE INCLUDED IN ALTERNATE #1.
 - SIZE REFERENCED PIPING PER MANUFACTURER'S RECOMMENDATIONS FOR SCHEDULE 40 STEEL.
 - ALL FIN TUBE HEATERS ARE TO BE MOUNTED AT 1'0" - 2" AFF UNLESS OTHERWISE SPECIFIED.

- TAGGED NOTES**
- MECHANICAL PLATFORM. REFER TO SHEET M4.0 FOR DETAILS.
 - HRS/HWR PIPING TO GEOTHERMAL WELLFIELD. REFER TO SHEET M4.0 FOR CONTINUATION. COORDINATE PIPING LOCATION WITH DESIGNER, WATER AND FINE PROTECTION ENTRANCE.
 - CO PIPING TO SUMP PIT. REFER TO PLUMBING DRAWINGS FOR DETAILS.
 - HWS/HWR PIPING DOWN IN WALL TO FC-1.
 - 3" HWS/HWR PIPING TO GREENHOUSE. REFER TO SHEET M4.0 FOR CONTINUATION. COORDINATE PIPING LOCATION WITH DOMESTIC WATER AND FINE PROTECTION ENTRANCE.
 - CO PIPING DOWN IN WALL TO UNDER SLAB.
 - Pipe to be coordinated with OUTDOOR LOCATION. PIPING TO BE INSTALLED A MINIMUM OF 3" ABOVE OUTDOOR. TYPICAL.
 - REFER TO DETAILS SHEET FOR FIN TUBE HEATER BRANCH PIPING SIZES.
 - MOUNT FIN TUBE HEATER 8'-0" AFF.
 - MOUNT FIN TUBE HEATER ABOVE ASSEMBLY ROOM WINDOW.
 - 3" HWS/HWR PIPING TO GREENHOUSE. REFER TO SHEET M4.0 FOR CONTINUATION.
 - 3" HWS/HWR PIPING TO BUILDING. REFER TO M4.0 FOR CONTINUATION.
 - F. ALTERNATE #1 IS NOT TAKEN RE-ROUTE HWS/HWR PIPING THROUGH MECHANICAL PLATFORM.
 - SPILL CONDENSATE TO FLOOR DRAIN LOCATED IN LAB SPACE. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATION.
 - PROVIDE DIFFERENTIAL PRESSURE SENSOR. CONNECT TO VFD.
 - PROVIDE 2-WAY MODULATING CONTROL VALVE FOR BRANCH PIPING IN LEU OF 2-WAY VALVE AT EACH FIN TUBE.
 - HWS/HWR PIPING CONNECTED TO RETAIL SHOP FIN HEATERS AND CONNECTED TO 3" GREENHOUSE HWS/HWR. REFER TO M4.0 FOR THE LOCATION OF HWS/HWR.
 - COORDINATE FIN TUBE HEATER MOUNTING HEIGHT WITH ROLL-UP DOOR.

- TAGGED NOTES**
- REFER TO THE GEOTHERMAL COOLER SHOWN IN LAB 1, FIN TUBE & LAND SERVED ROOM 107 AND LAB 2 (ENVIRONMENTAL AND AG SCIENCE) ROOM 109. THE GEOTHERMAL COOLER SHALL REQUIRE NO REVERSE PIPING, BUT RATHER SHALL BE PERFORMED AS A DIRECT CONNECTION TO THE GEOTHERMAL COOLER. REFER TO PLUMBING DRAWINGS FOR DETAILS.
 - CONNECTED TO WALL-IN COOLER CONDENSING UNIT.

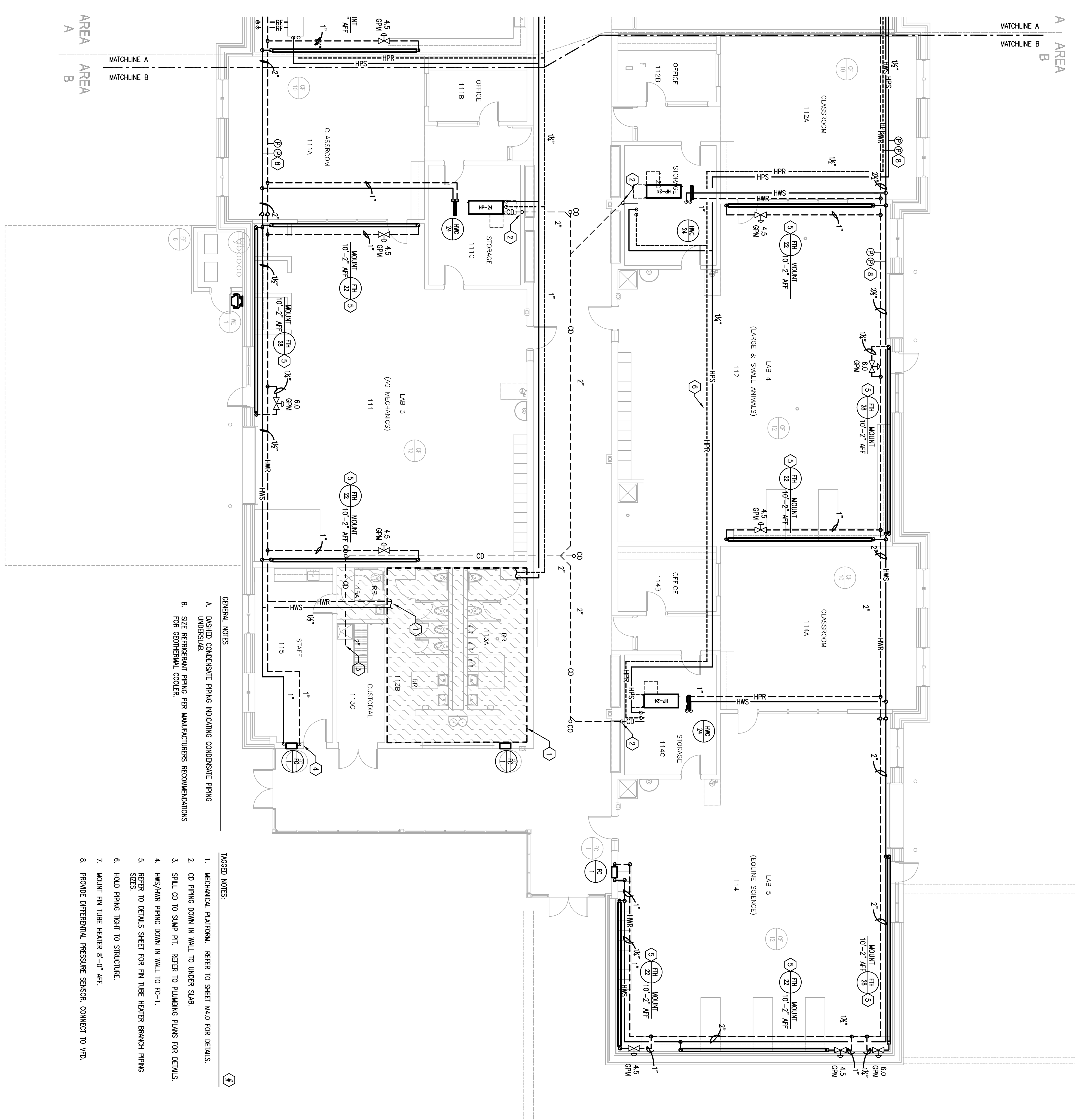
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ACADEMIC CLASSROOM BUILDING FLOOR PLAN – AREA A HYDRONIC PIPING PLAN
 SCALE: 1/8" = 1'-0"
 0' 1" 2' 4' 8' 16' 24' 32'



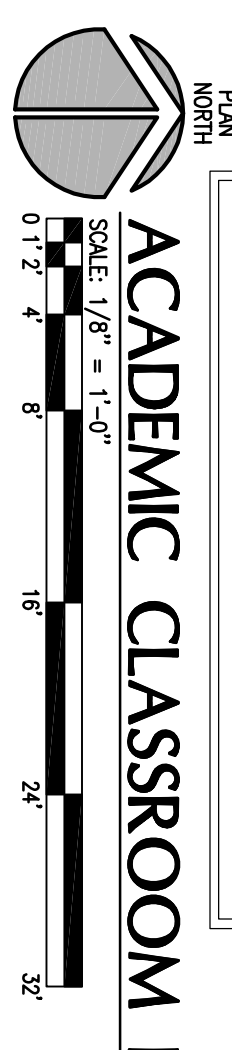
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- GENERAL NOTES:**
- MECHANICAL PLATFORM, REFER TO SHEET M4.0 FOR DETAILS.
 - CD PIPING DOWN IN WALL TO UNDER SLAB.
 - SHLL CD TO SLUMP PIT. REFER TO PLUMBING PLANS FOR DETAILS.
 - HMS/HNR PIPING DOWN IN WALL TO FC-1.
 - REFER TO DETAILS SHEET FOR FN TUBE HEATER BRANCH PIPING SIZES.
 - HOLD PIPING TIGHT TO STRUCTURE.
 - MOUNT FN TUBE HEATER B-0' AFF.
 - PROVIDE DIFFERENTIAL PRESSURE SENSOR CONNECT TO VIB.
- TAGGED NOTES:**
- UNDERSLAB.
 - SEE REFERENCED PIPING PER MANUFACTURERS RECOMMENDATIONS FOR EXTERNAL COILS.

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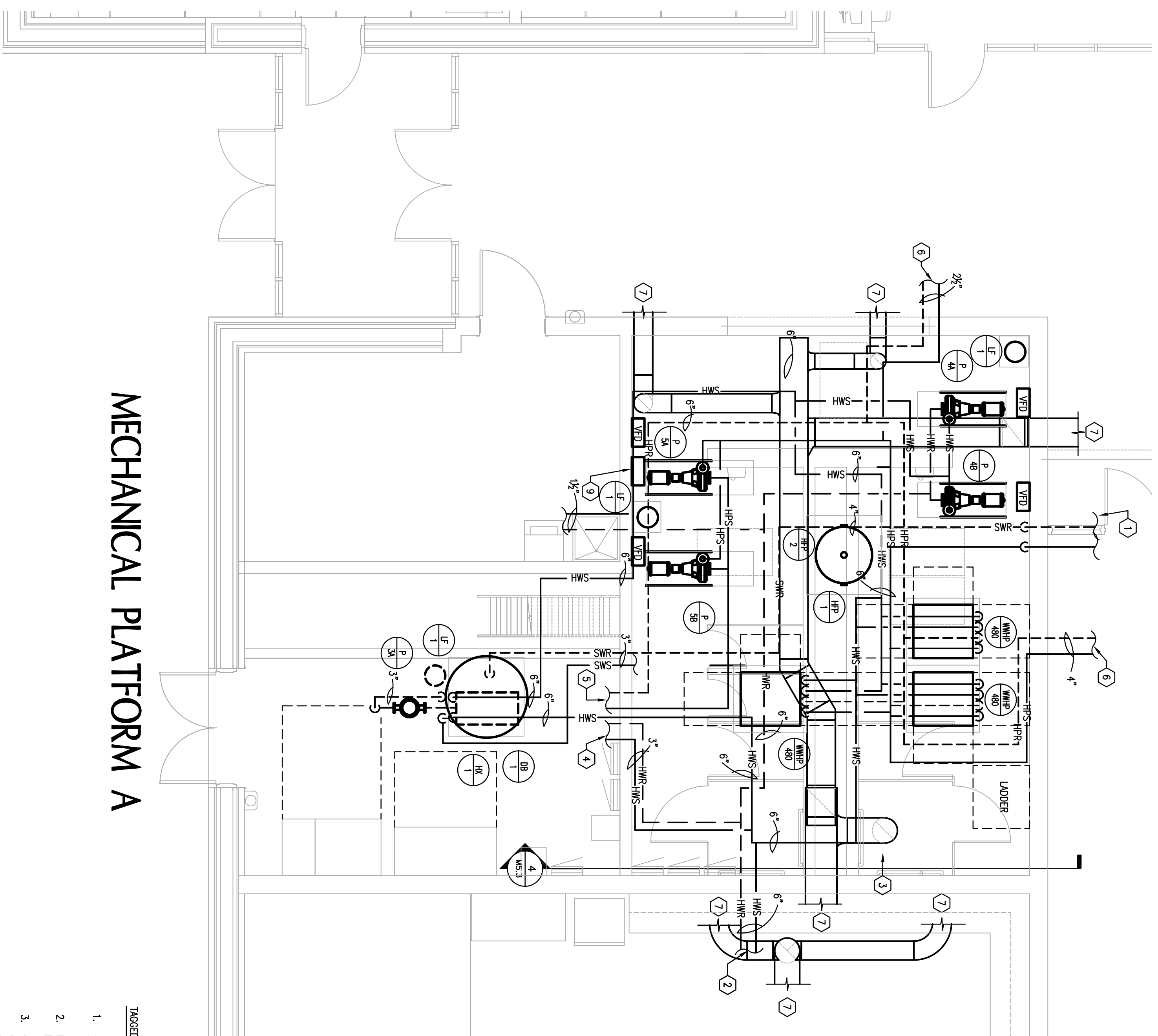


ACADEMIC CLASSROOM BUILDING FLOOR PLAN – AREA B HYDRONIC PIPING PLAN

ACADEMIC CLASSROOM BUILDING AREA "B" HYDRONIC PIPING PLAN
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

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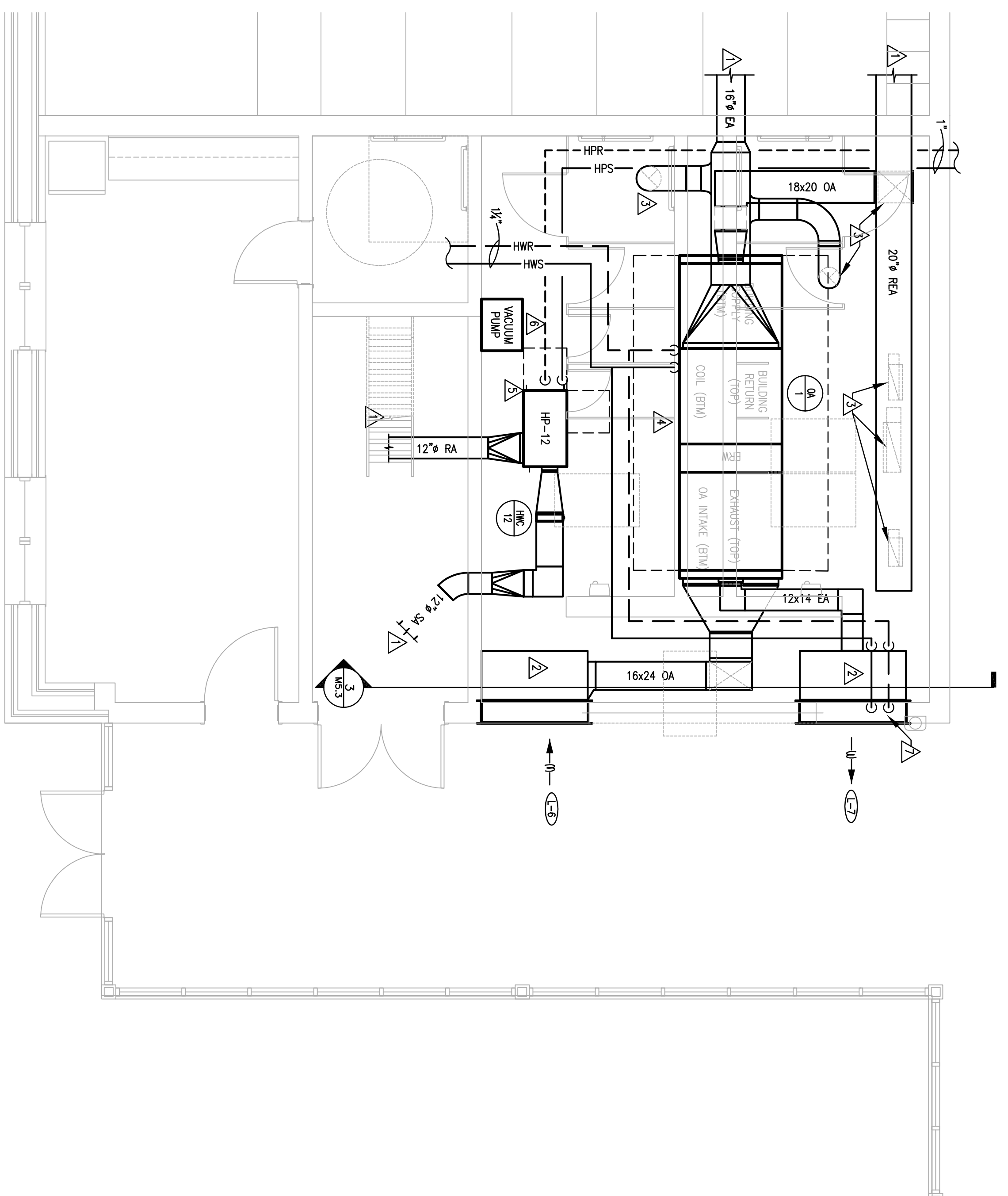
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MECHANICAL PLATFORM A

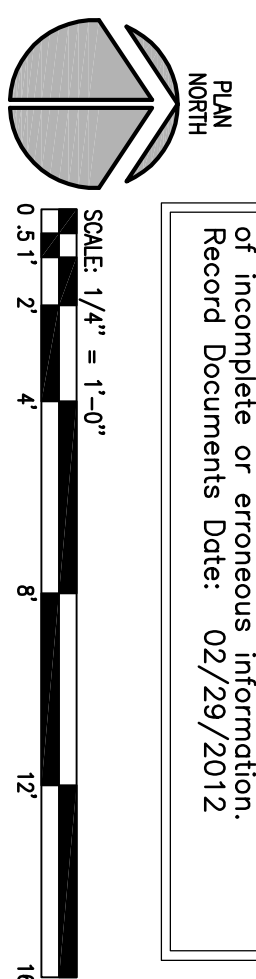
A. PROVIDE 4" OVERFLOW DRAIN PIPE FROM THE TOP OF DB-1.1 PIPE SPRING DOWN IN EXTERIOR WALL, SHALL BE GRADE 12" ABOVE FINISHED GRADE OUTSIDE OF BENCH 1058.

- TAGGED NOTES:
1. 4" SWS/SPR PIPING TO EVACUATED TUBE APPROX 48"-30 SQUARE THERMAL PANELS. REFER TO SHEET M20C FOR CONTINUATION.
 2. HWS/HWR PIPING TO FTH, HMC, AND FC UNITS. REFER TO SHEET M20A FOR CONTINUATION.
 3. OA DUCT DOWN, BETWEEN REST ROOM CEILING JOISTS RESTROOM CEILING SPACE. REFER TO AREA "X" HVAC PLAN FOR CONTINUATION.
 4. HWS/HWR PIPING TO GREENHOUSE. REFER TO SHEET M20A FOR CONTINUATION.
 5. HRS/HWR PIPING TO GEOTHERMAL WELTFIELD. REFER TO SHEET M20A FOR CONTINUATION.
 6. HRS/HWR PIPING TO HP UNITS. REFER TO SHEET M20A FOR CONTINUATION.
 7. REFER TO AREA "X" HVAC PLAN FOR CONTINUATION.
 8. RUN DUCT BETWEEN CEILING JOISTS AS NEEDED.
 9. DDC CONTROL PANEL.



MECHANICAL PLATFORM B

- TAGGED NOTES:
1. REFER TO AREA "B" HVAC PLAN FOR CONTINUATION.
 2. FALL SIZE AIR RETURN, 24" DEEP, SLOPE BOTTOM OF BOX TO ALLOW PENETRATING MOISTURE TO DRAIN.
 3. CEILING SPACE, BETWEEN REST ROOM CEILING JOISTS, TO RESTROOM CEILING SPACE. REFER TO AREA "B" HVAC PLAN FOR CONTINUATION.
 4. ALL OA-1 EQUIPMENT COMPONENTS SHALL BE ACCESSIBLE FROM THIS SIDE OF UNIT.
 5. PROVIDE AND INSTALL HEAT PUMP ON 6" ROOF CURB, ASSURE ADEQUATE CLEARANCE FOR CONDENSATE DRAIN. SHALL CONDENSATE TO FLOOR DRAIN.
 6. PROVIDE AIR MONITORING VACUUM PUMP. REFER TO SPECIFICATIONS FOR DETAILS.
 7. 1" HWS/HWR PIPING DOWN TO FC-1. REFER TO M20B FOR FC-1 LOCATION.



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M4.0

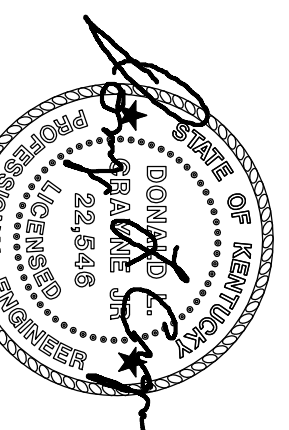
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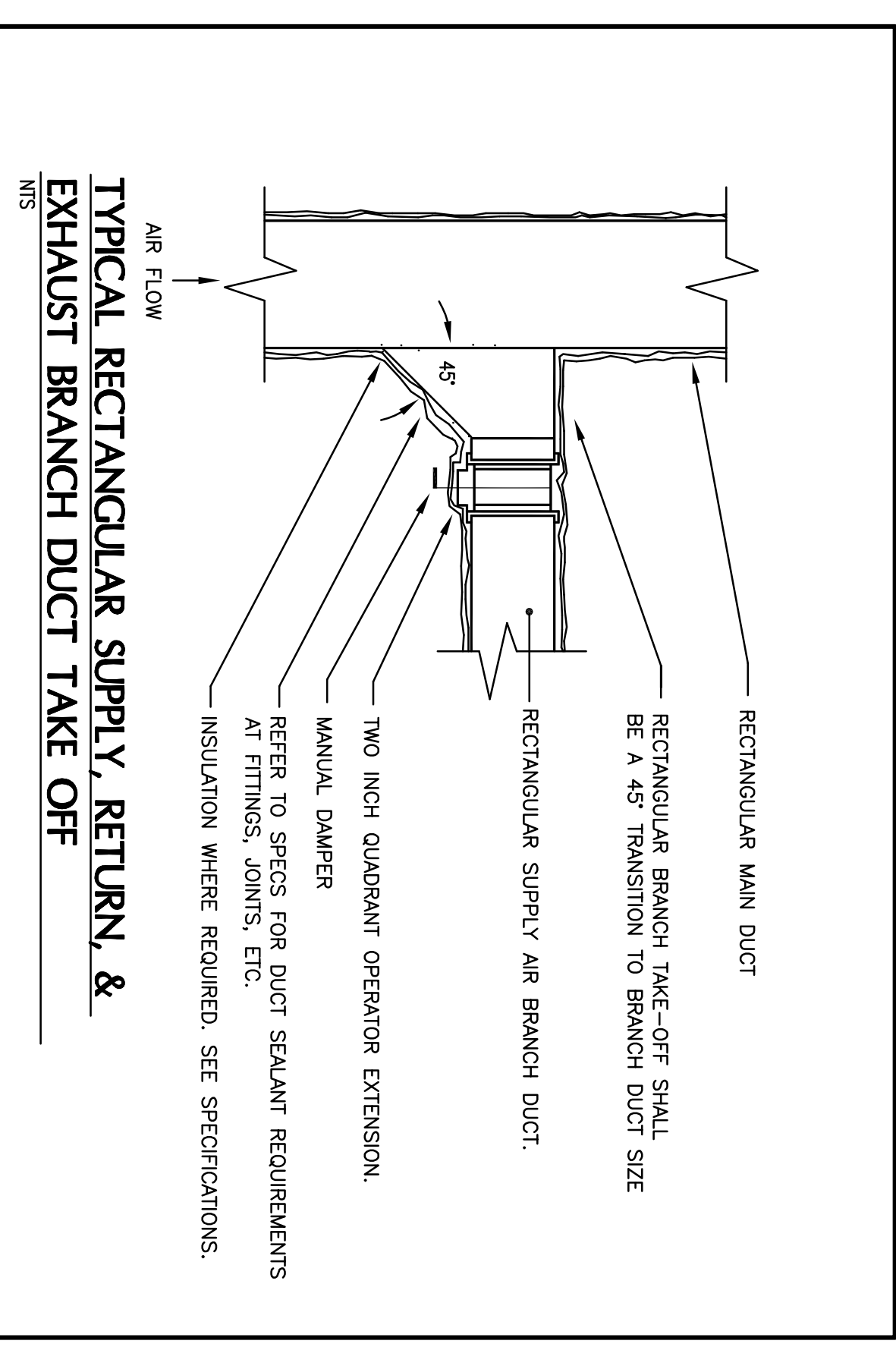
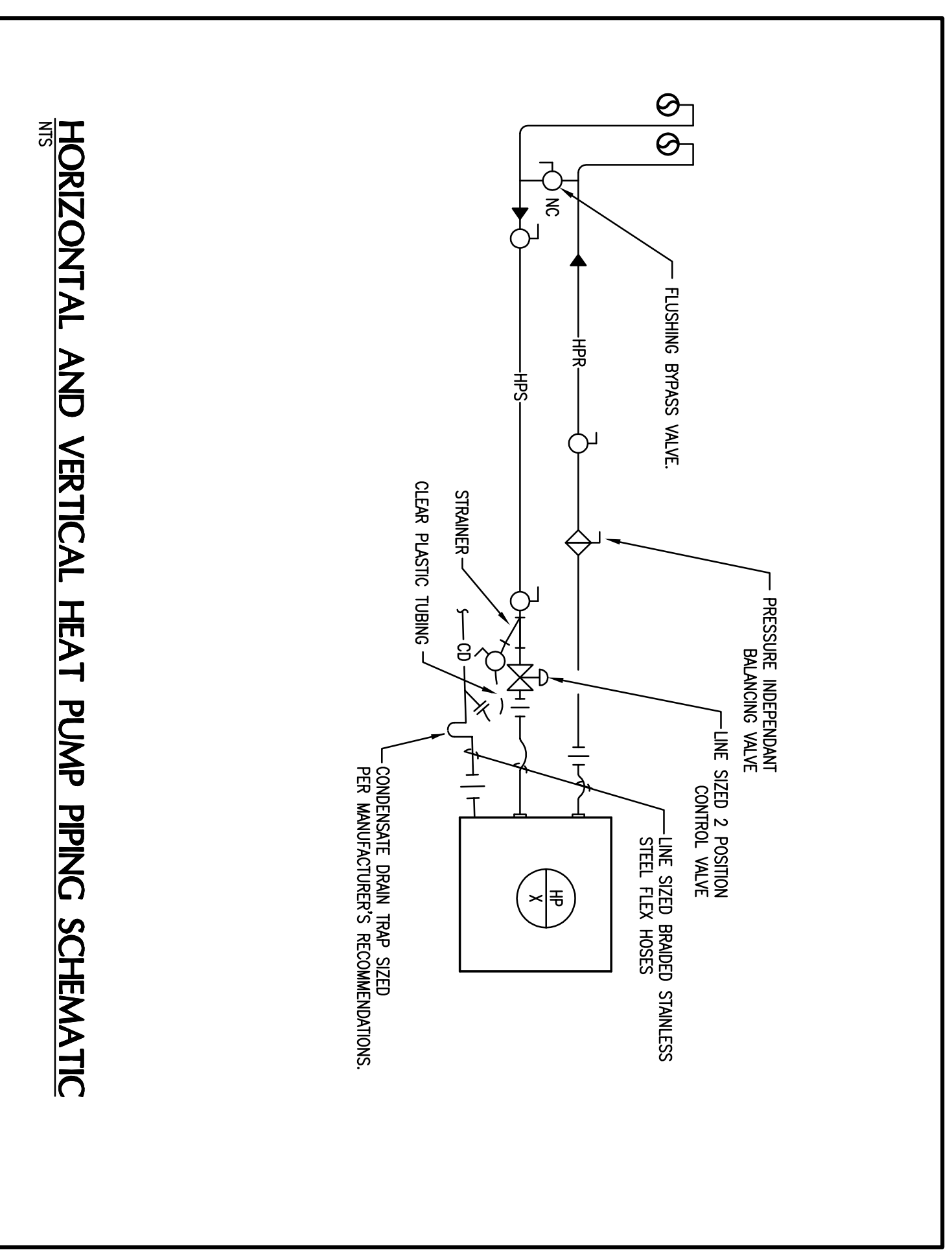
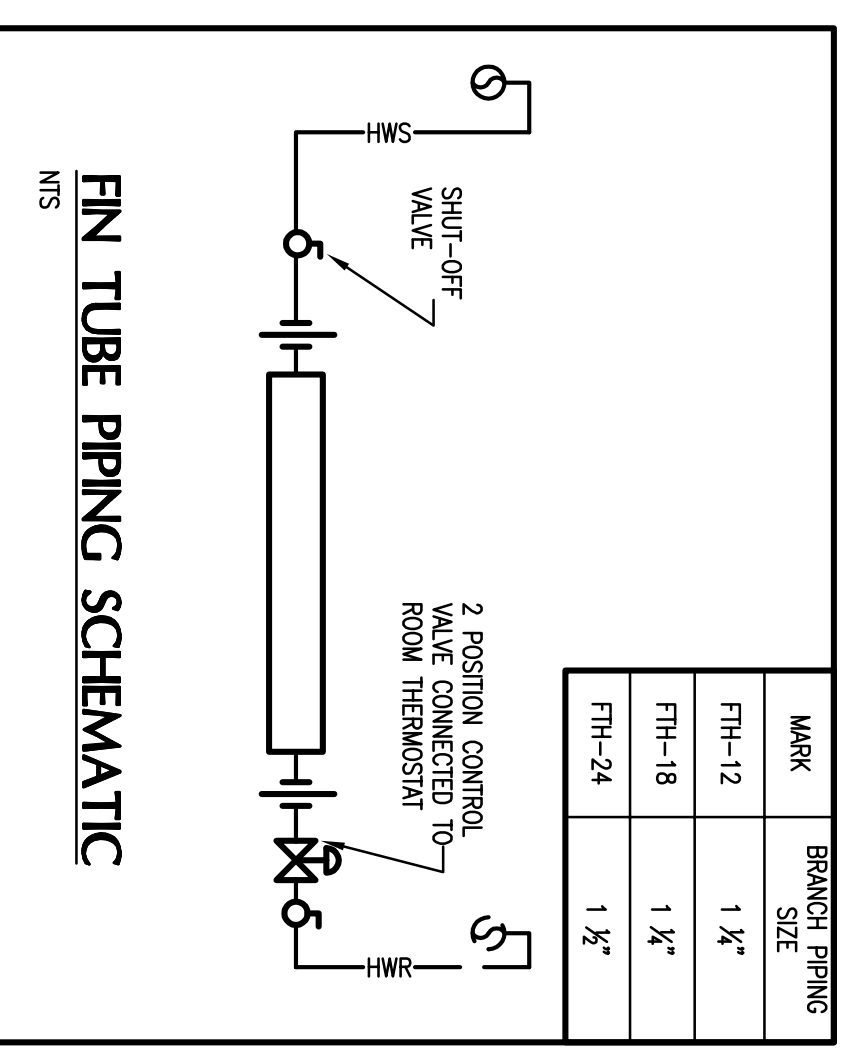
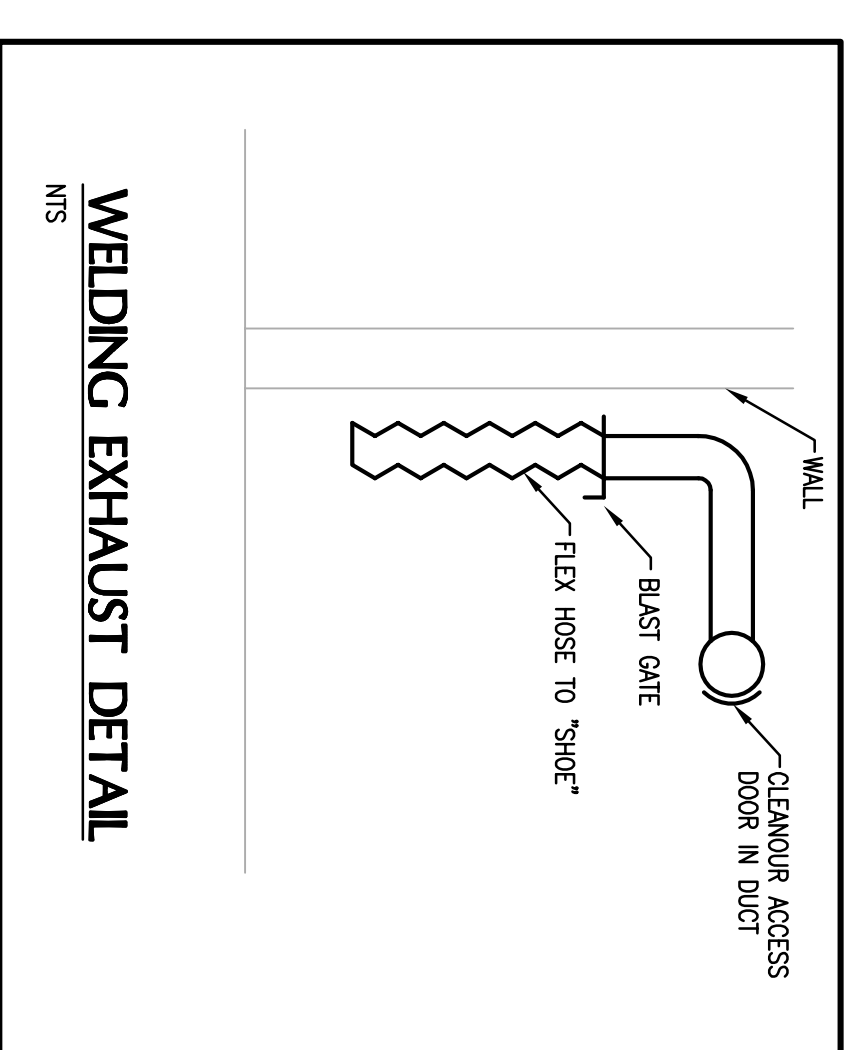
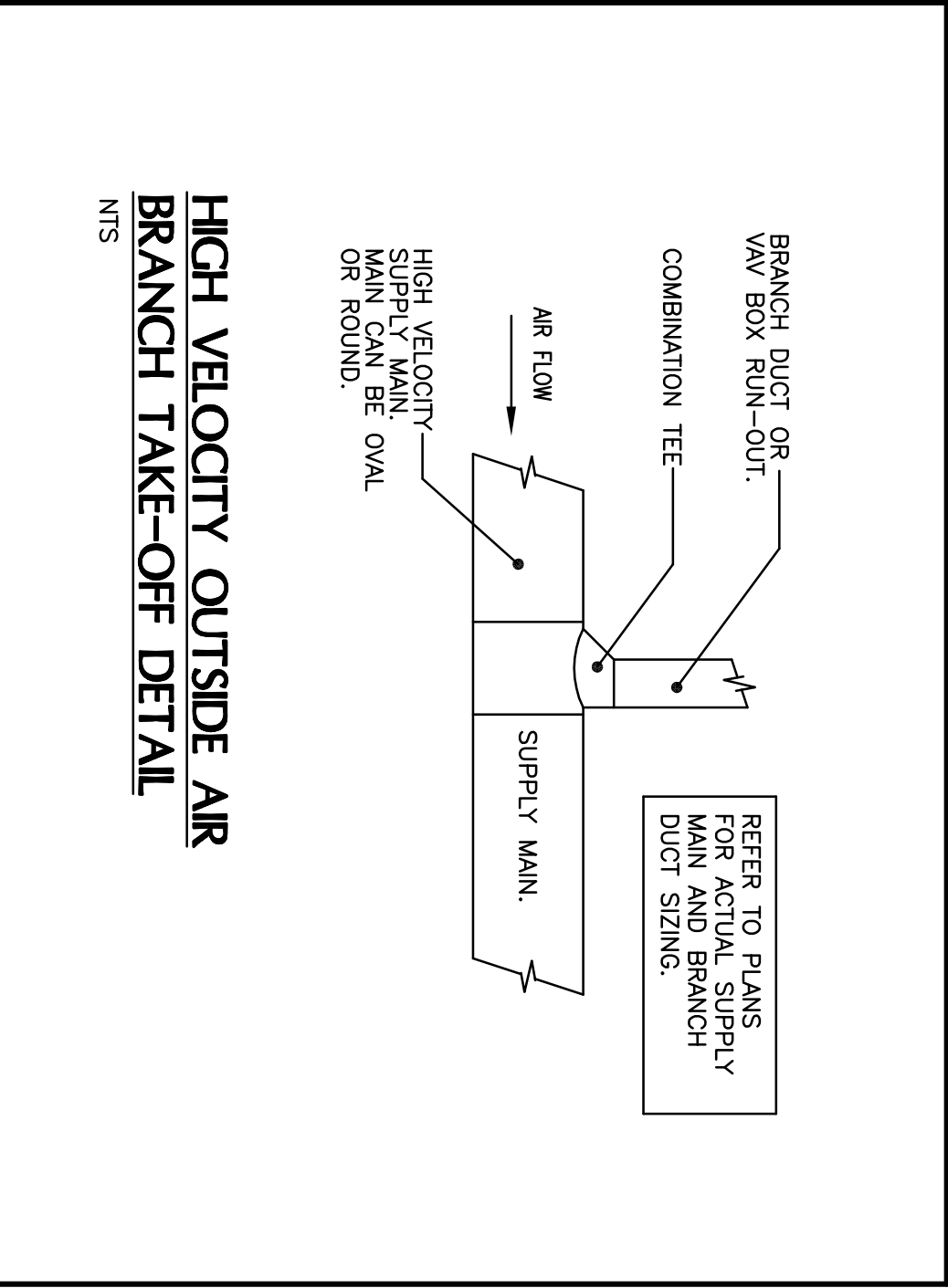
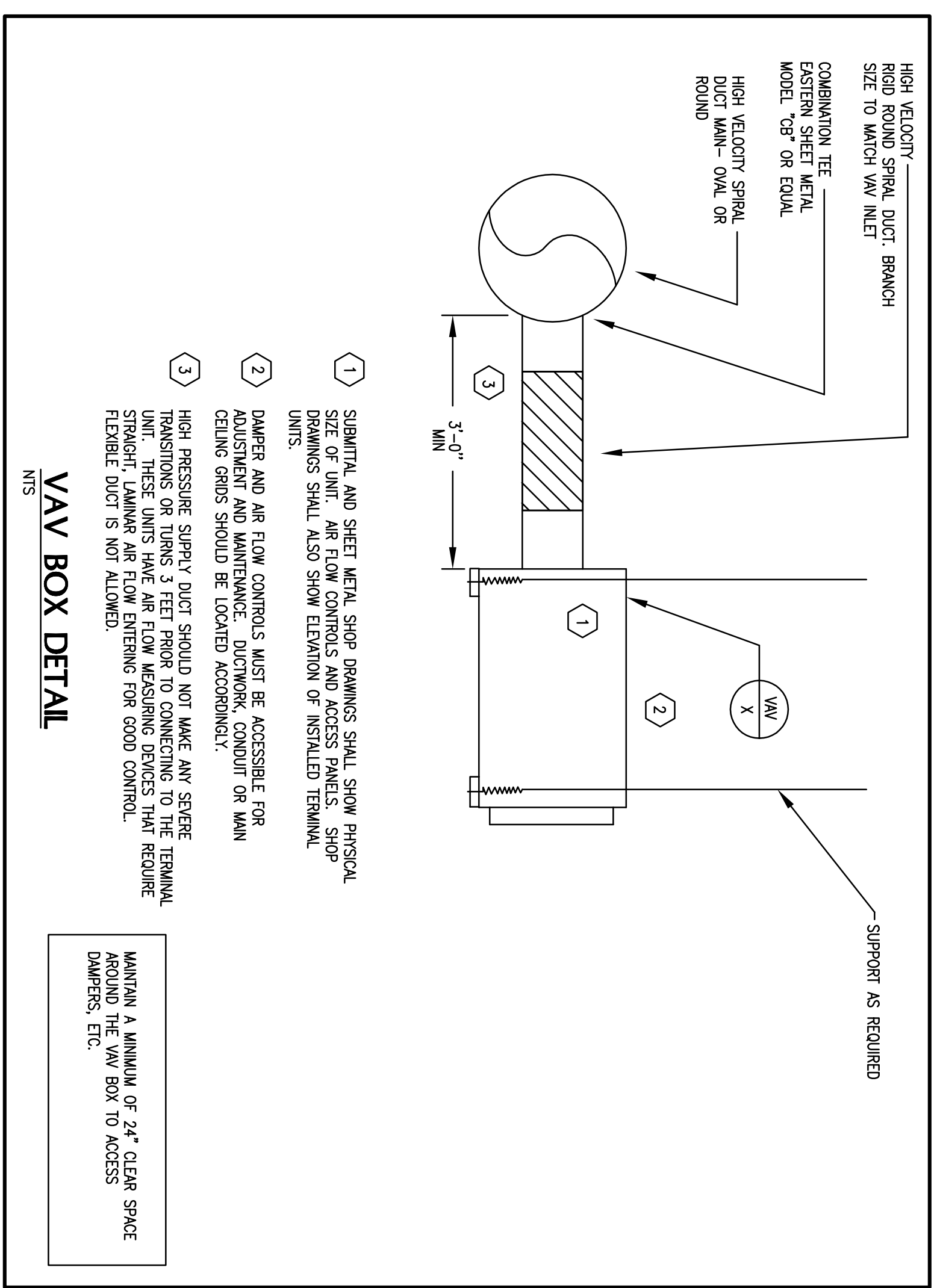
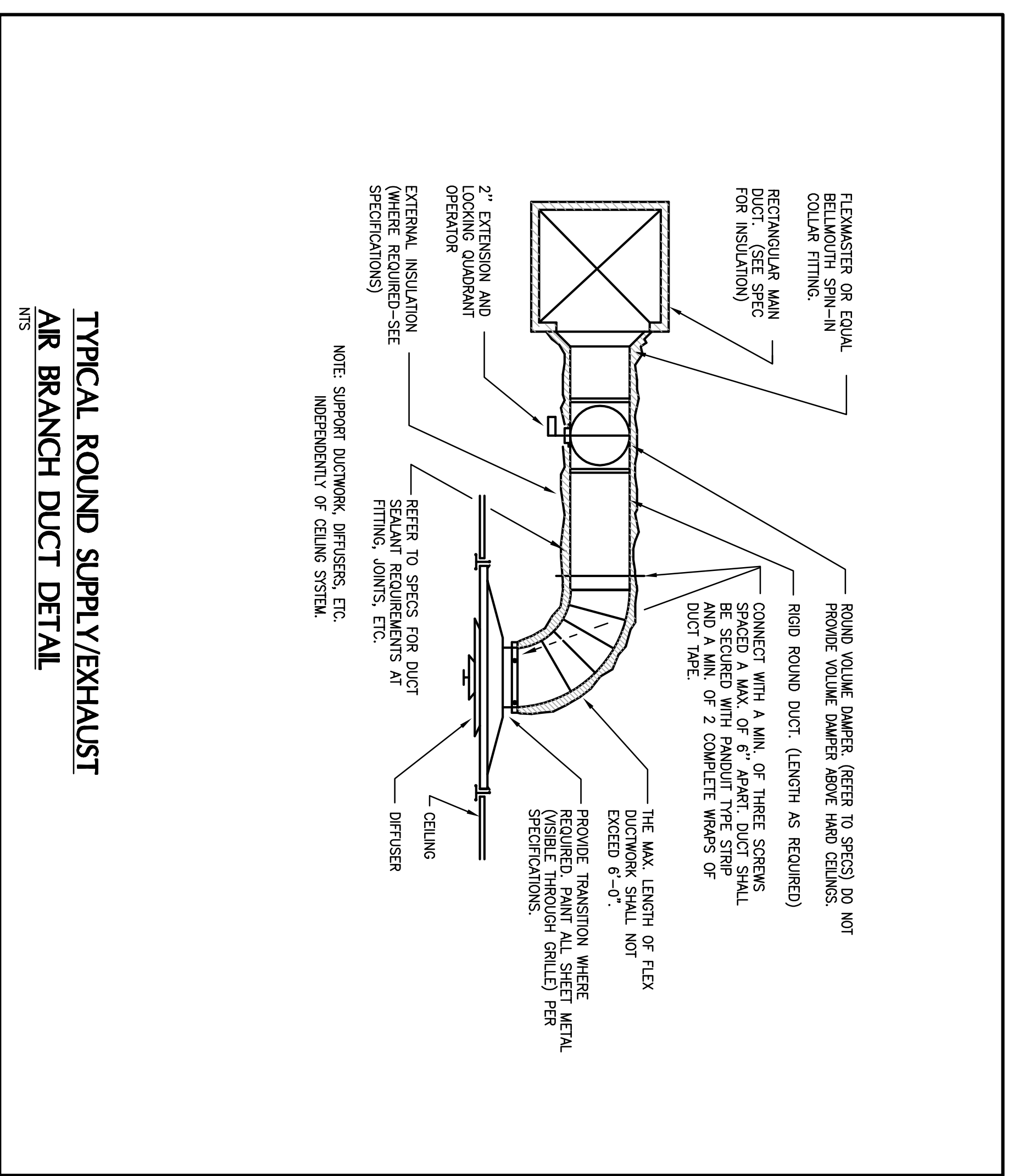
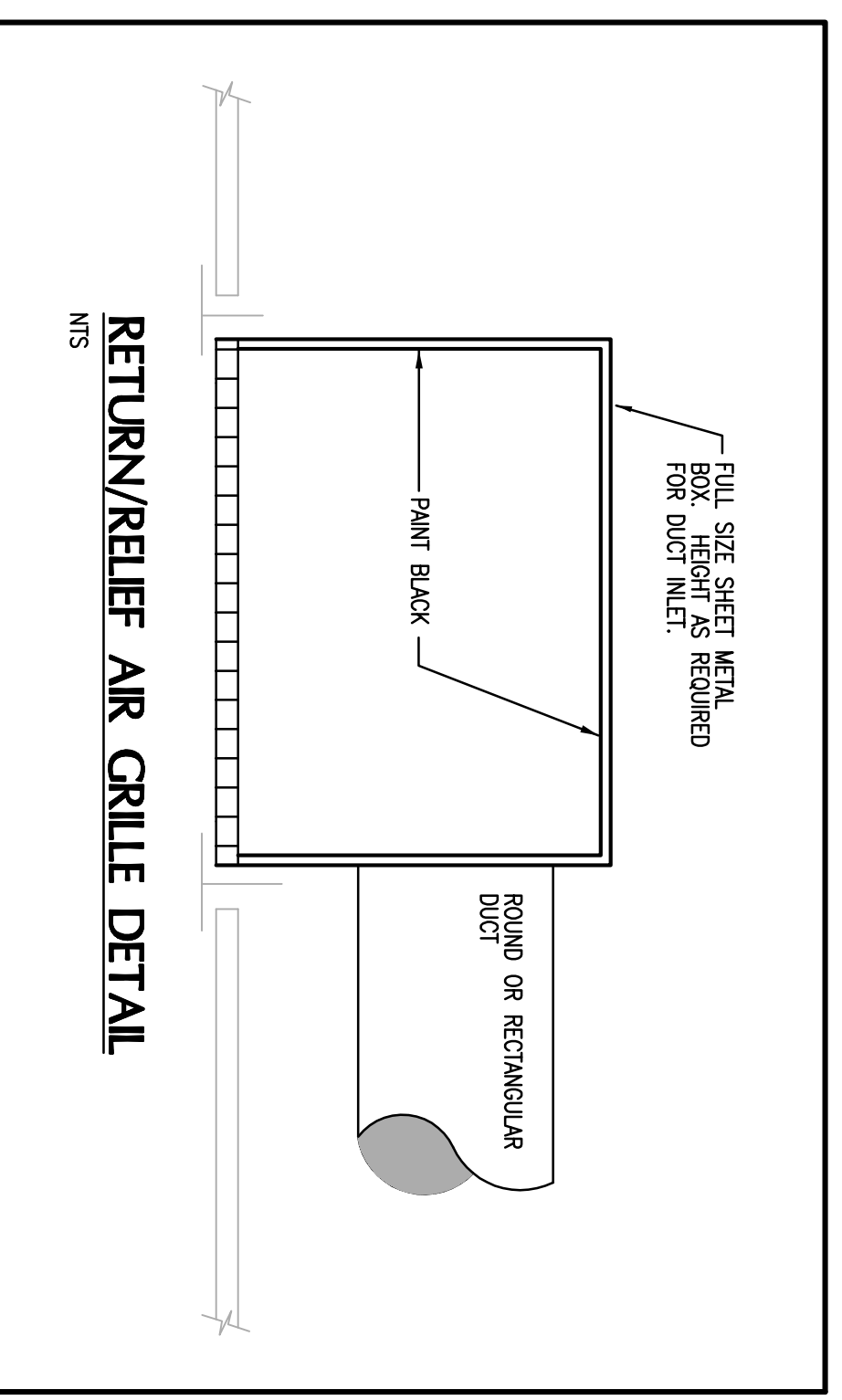
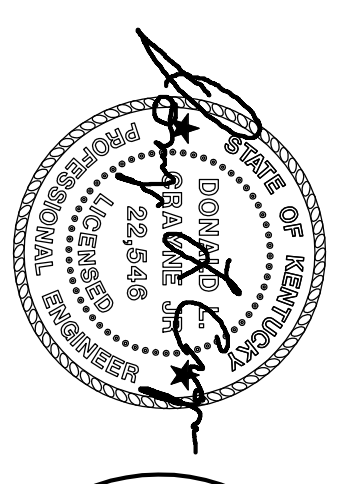
ENLARGED MECHANICAL PLATFORM PLANS

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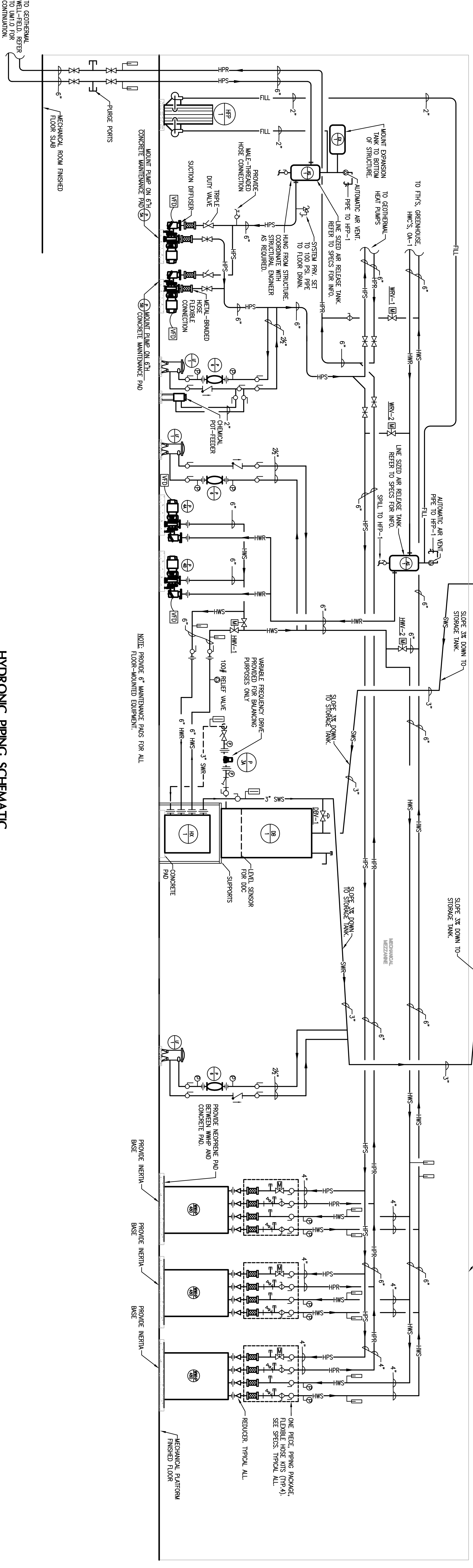
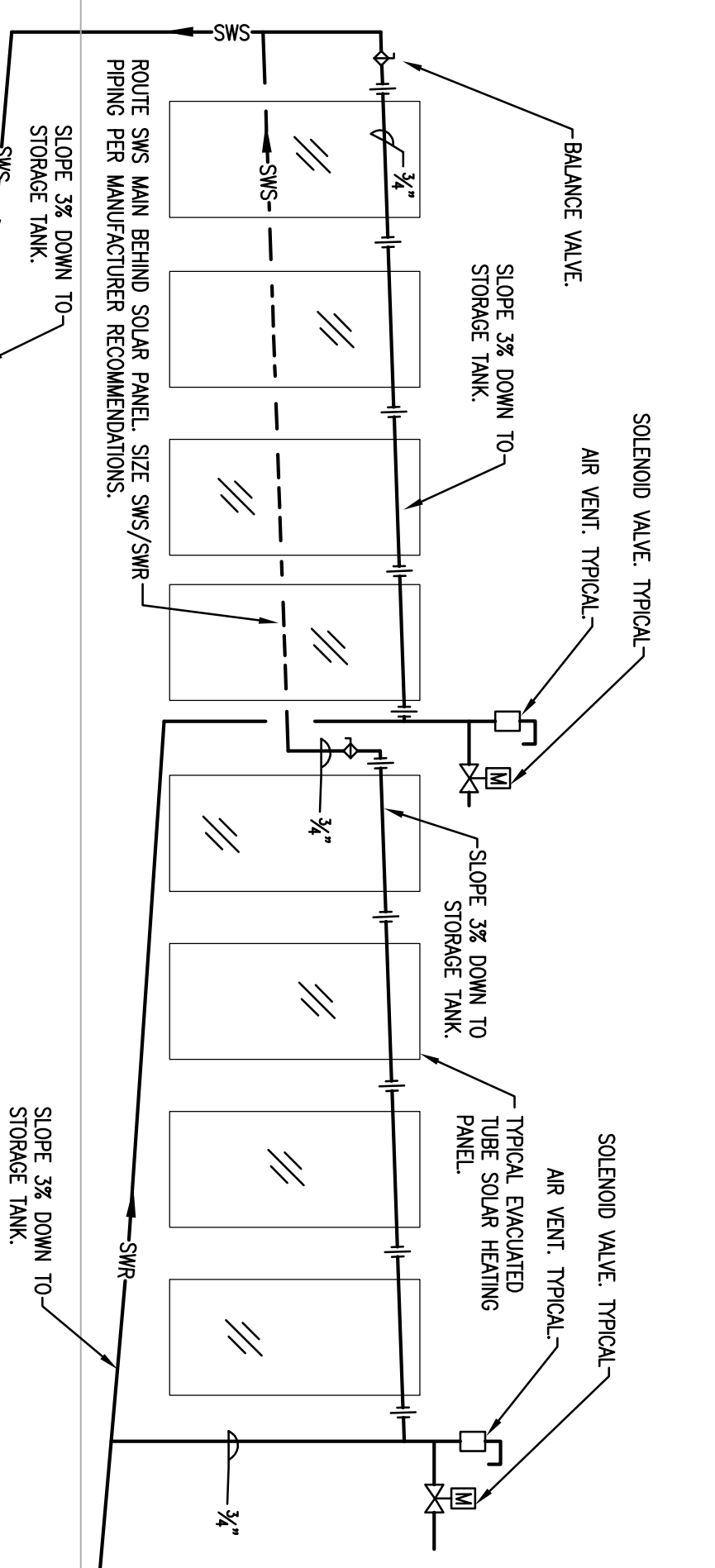
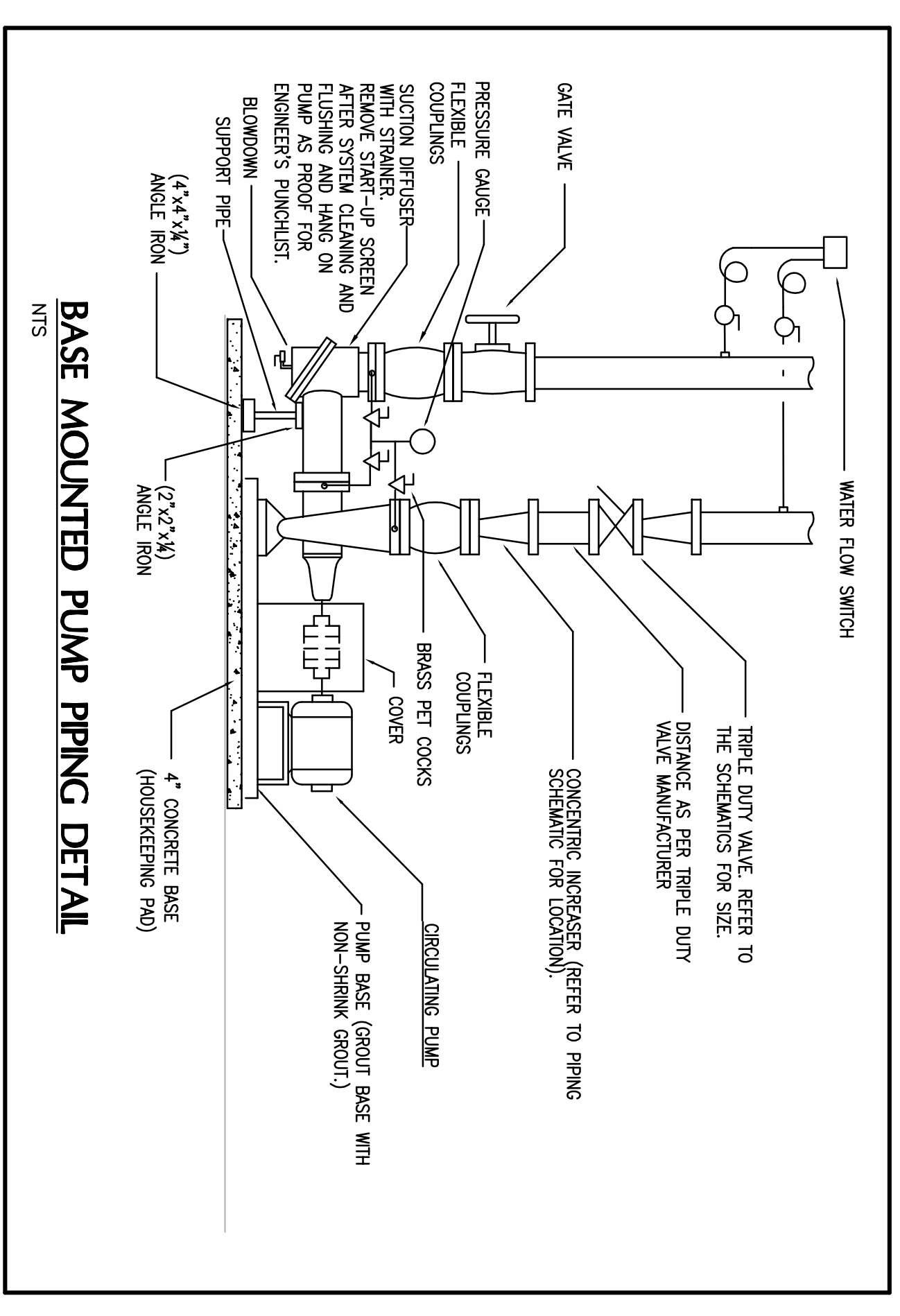
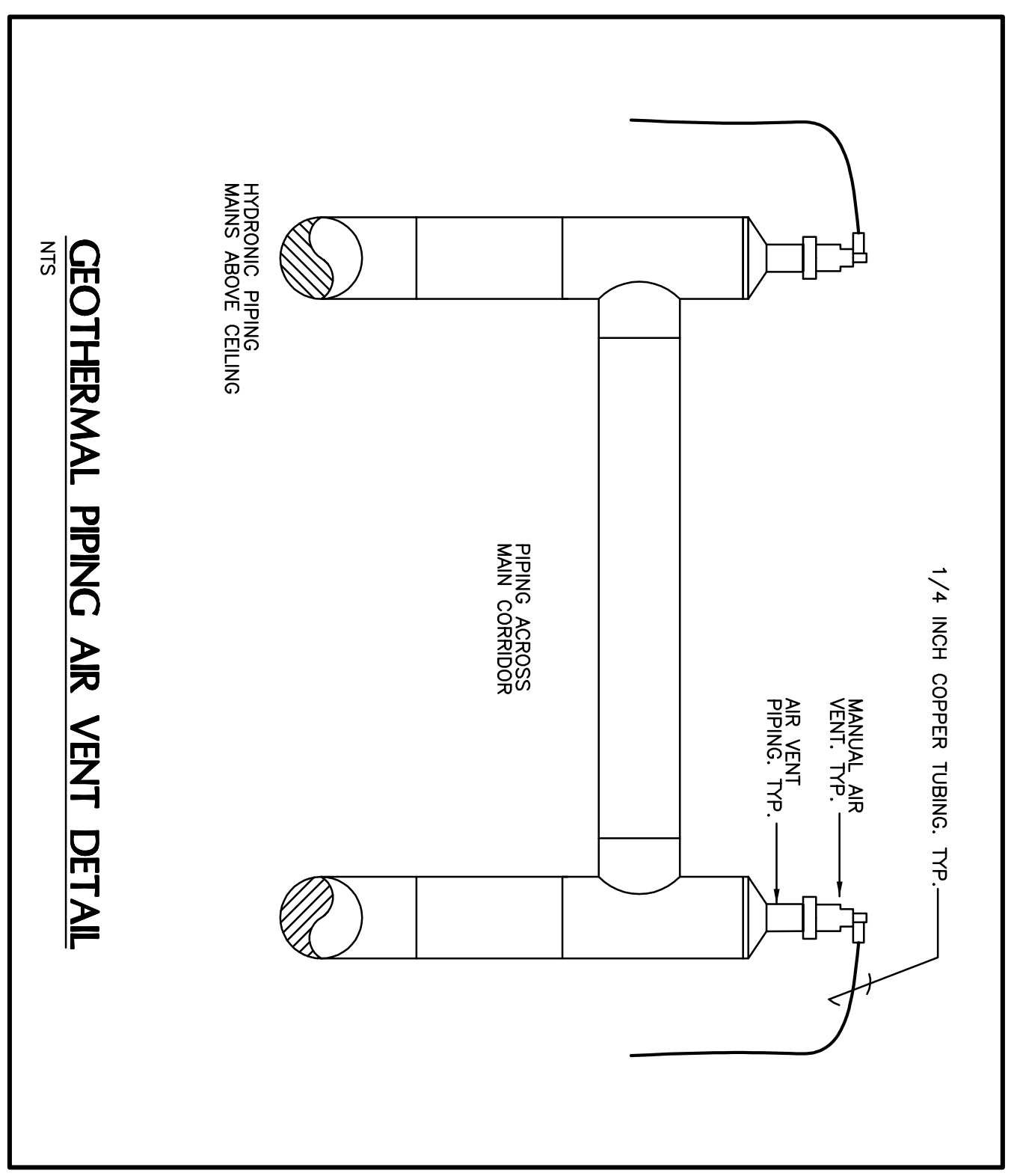
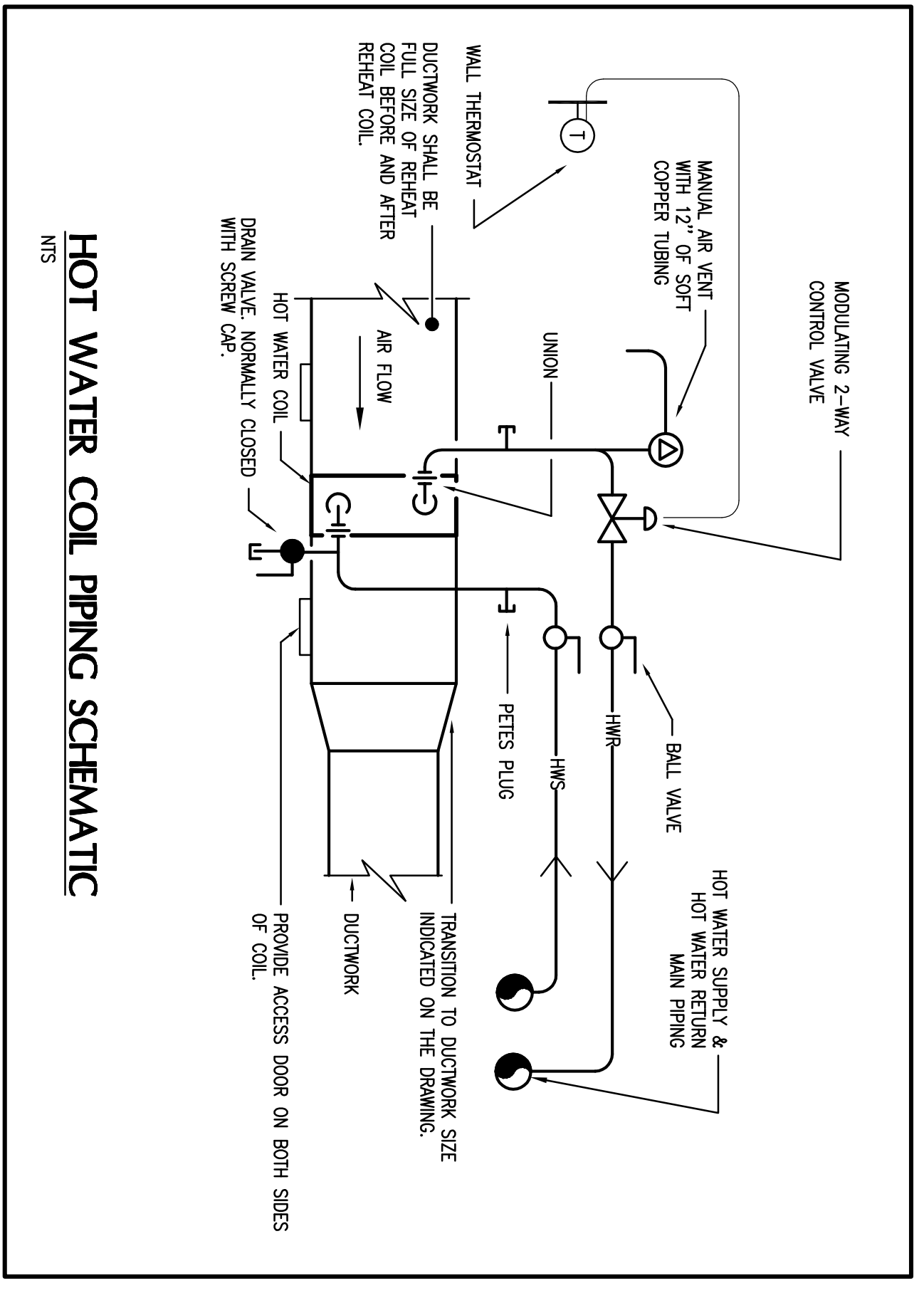
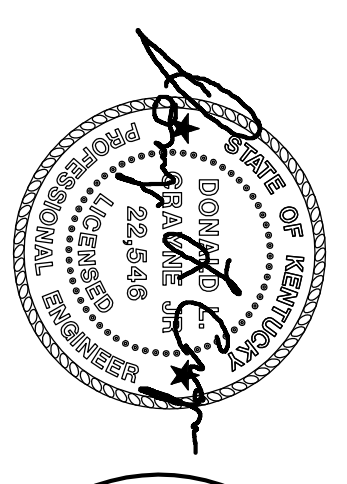
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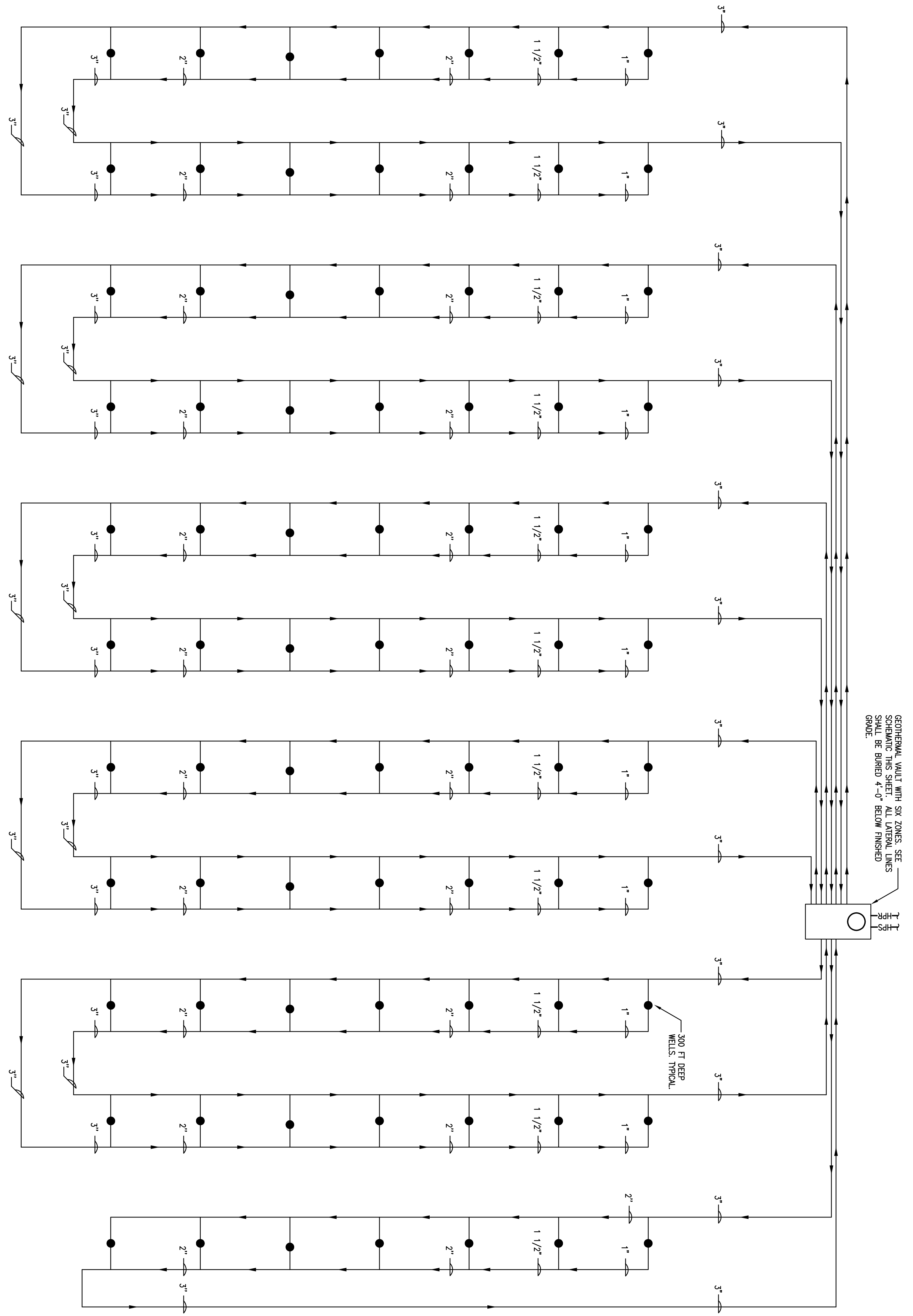
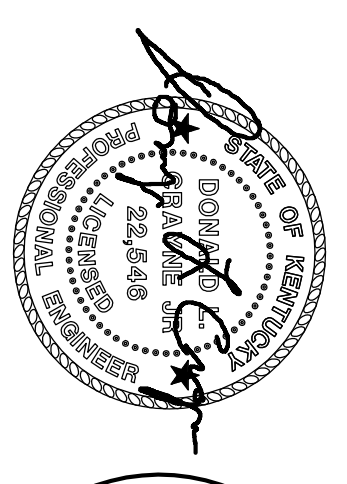
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HYDRONIC PIPING SCHEMATIC
 NTS

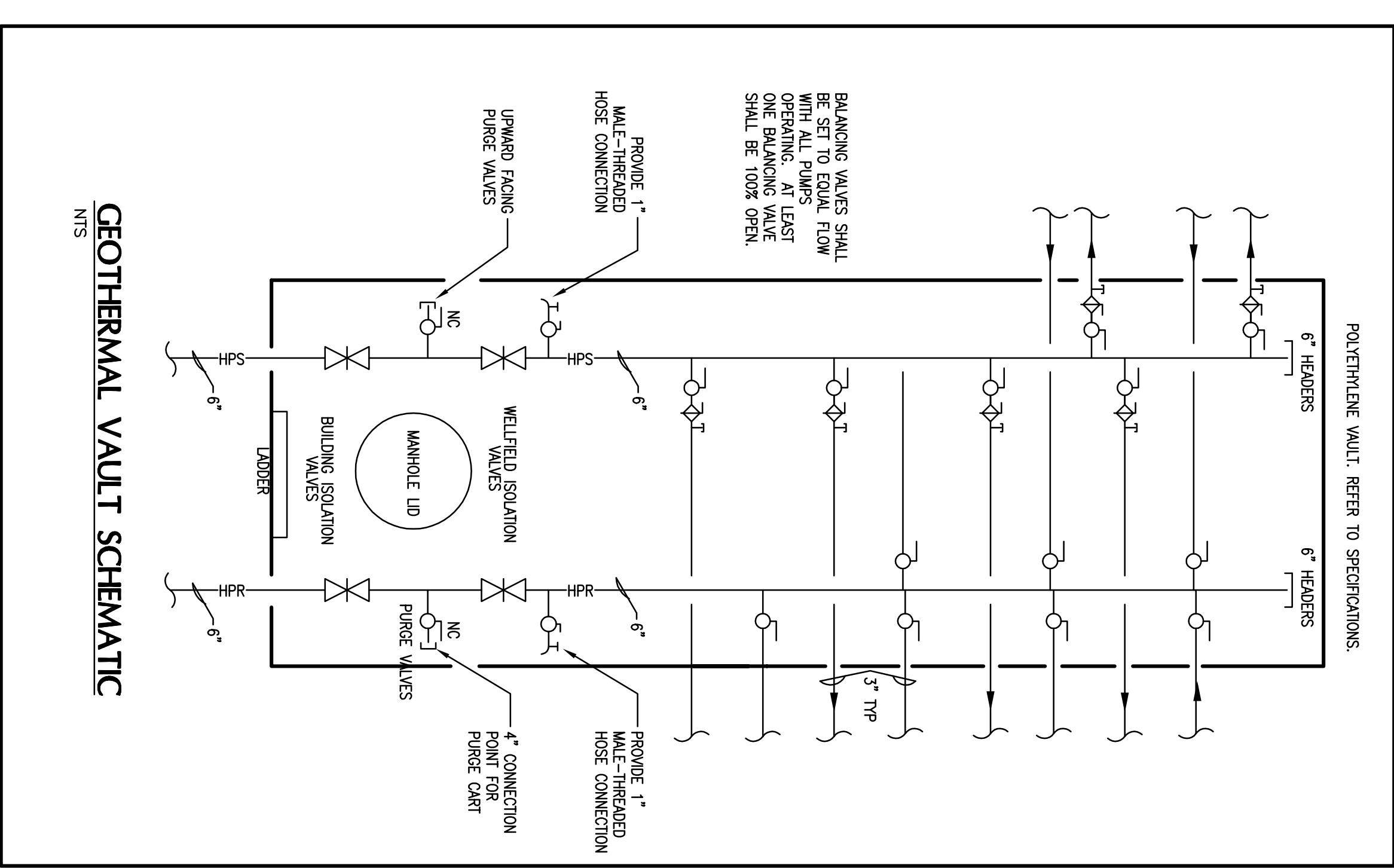
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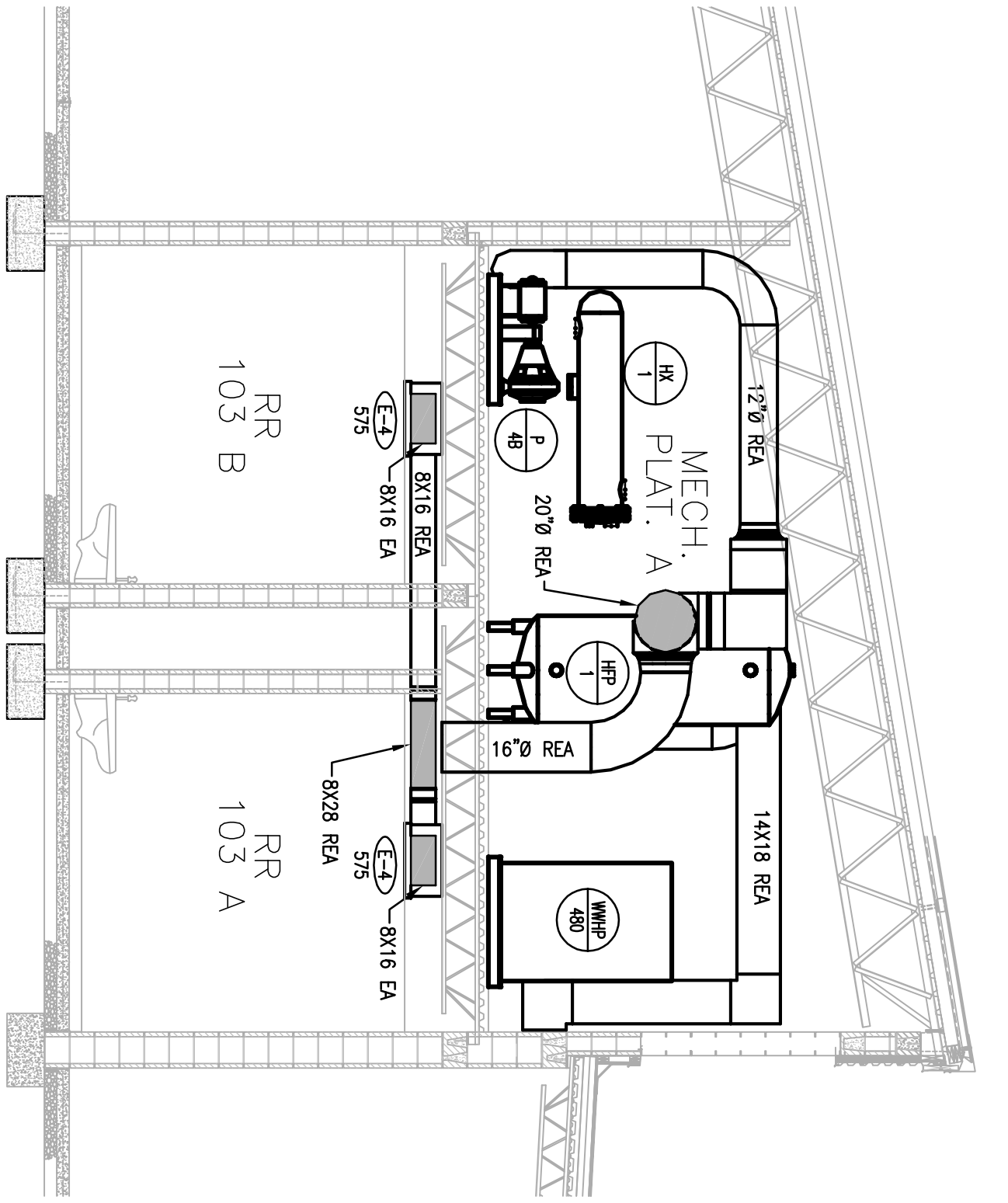


GEOTHERMAL WELL FIELD PIPING SCHEMATIC

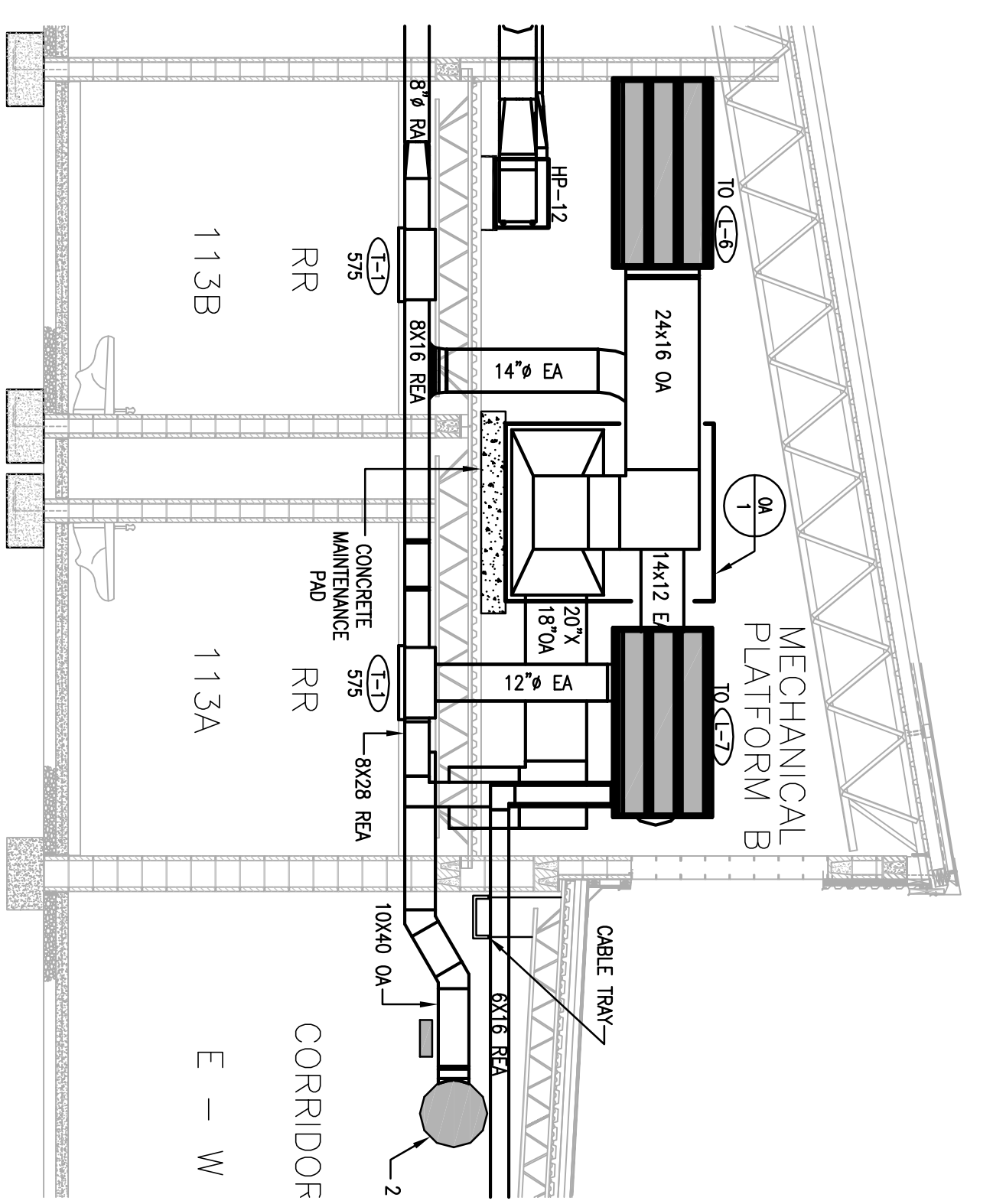
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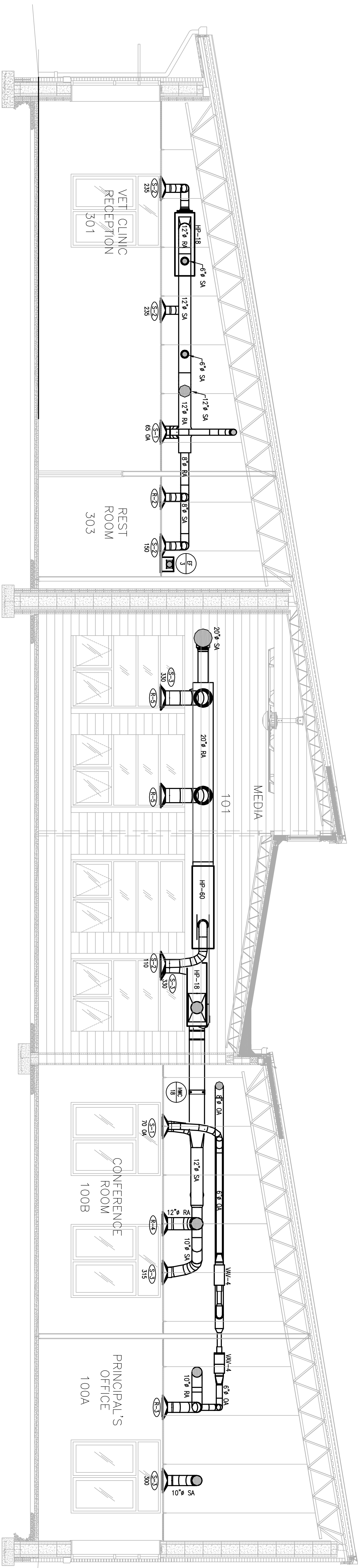
GEOTHERMAL VAULT SCHEMATIC



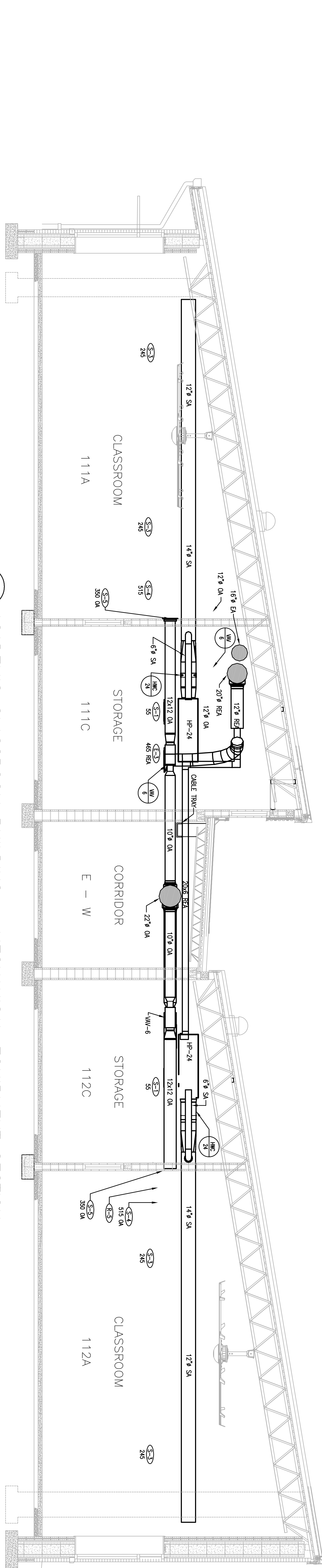
4 ACADEMIC CLASSROOM BUILDING – MECHANICAL EQUIPMENT SECTION
1/4" = 1'-0"



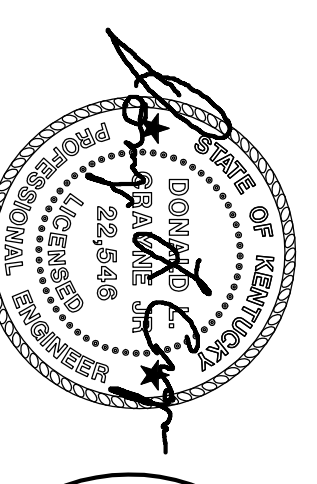
3 ACADEMIC CLASSROOM BUILDING – MECHANICAL EQUIPMENT SECTION
1/4" = 1'-0"



2 ACADEMIC CLASSROOM BUILDING – MECHANICAL EQUIPMENT SECTION
1/4" = 1'-0"



1 ACADEMIC CLASSROOM BUILDING – MECHANICAL EQUIPMENT SECTION
1/4" = 1'-0"



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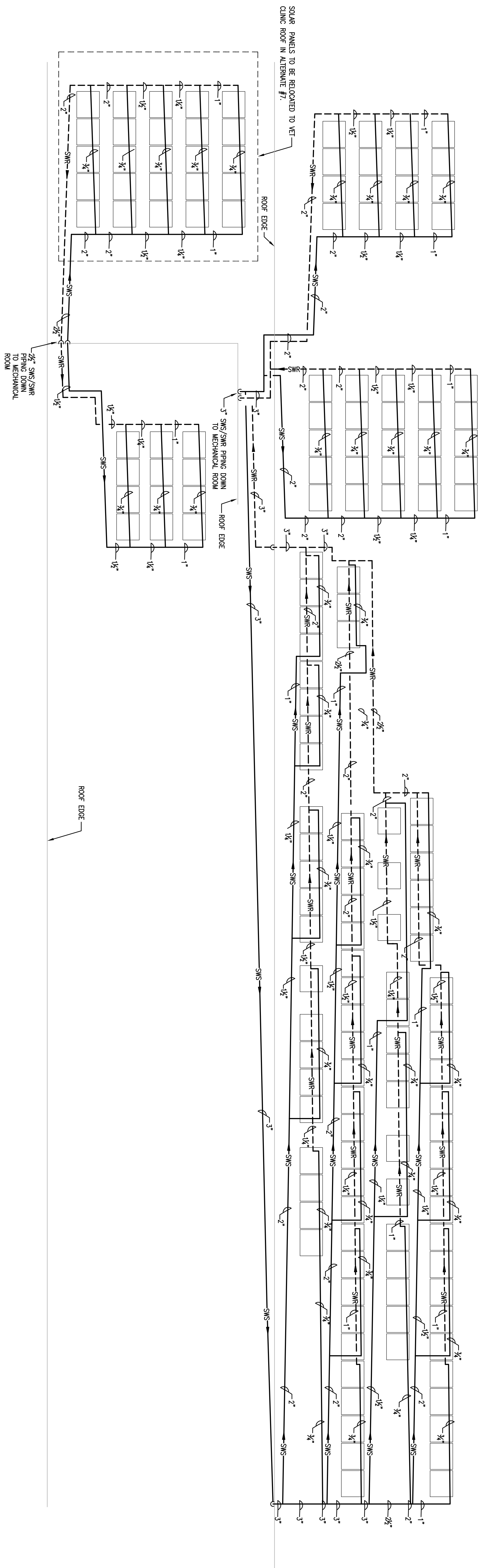
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MECHANICAL SECTIONS
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SOLAR PANEL PIPING SCHEMATIC

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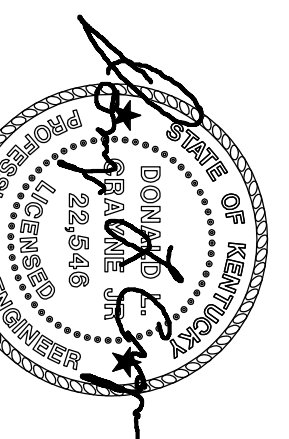
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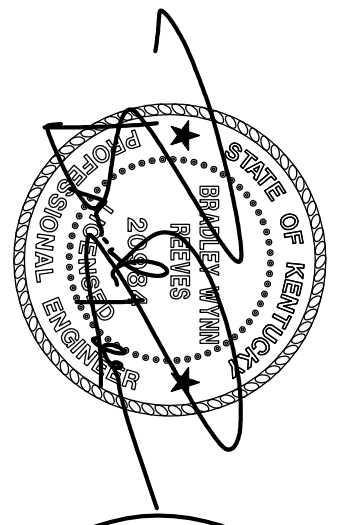
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- GENERAL NOTES (APPLICABLE TO ALL WORK AND DOCUMENTS):**
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 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL WORK AND DOCUMENTS WITH THE ARCHITECT AND THE ENGINEER.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
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 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL UTILITIES AND STRUCTURES.
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SYSTEM	ITEM	DEVICE MODEL # REFER TO SPECS IF NONE LISTED	BACKBOX COVER IF APPLICABLE	MOUNTING HEIGHT (TO BOTTOM OF BOX)	DRAWING SYMBOL
SYSTEM SWITCHES	1. 120V SINGLE PHASE			4'-0"	S
	2. 240V SINGLE PHASE			4'-0"	S
	3. 277V SINGLE PHASE			4'-0"	S
	4. 480V SINGLE PHASE			4'-0"	S
	5. 600V SINGLE PHASE			4'-0"	S
	6. 720V SINGLE PHASE			4'-0"	S
	7. 825V SINGLE PHASE			4'-0"	S
	8. 960V SINGLE PHASE			4'-0"	S
	9. 1140V SINGLE PHASE			4'-0"	S
	10. 1380V SINGLE PHASE			4'-0"	S
	11. 1500V SINGLE PHASE			4'-0"	S
	12. 1710V SINGLE PHASE			4'-0"	S
LIGHTING	1. 120V SINGLE PHASE			4'-0"	L
	2. 240V SINGLE PHASE			4'-0"	L
	3. 277V SINGLE PHASE			4'-0"	L
	4. 480V SINGLE PHASE			4'-0"	L
	5. 600V SINGLE PHASE			4'-0"	L
	6. 720V SINGLE PHASE			4'-0"	L
	7. 825V SINGLE PHASE			4'-0"	L
	8. 960V SINGLE PHASE			4'-0"	L
	9. 1140V SINGLE PHASE			4'-0"	L
	10. 1380V SINGLE PHASE			4'-0"	L
	11. 1500V SINGLE PHASE			4'-0"	L
	12. 1710V SINGLE PHASE			4'-0"	L

SYSTEM	ITEM	DEVICE MODEL # REFER TO SPECS IF NONE LISTED	BACKBOX COVER IF APPLICABLE	MOUNTING HEIGHT (TO BOTTOM OF BOX)	DRAWING SYMBOL
DATA/VOICE CORDS	1. 120V SINGLE PHASE			4'-0"	D
	2. 240V SINGLE PHASE			4'-0"	D
	3. 277V SINGLE PHASE			4'-0"	D
	4. 480V SINGLE PHASE			4'-0"	D
	5. 600V SINGLE PHASE			4'-0"	D
	6. 720V SINGLE PHASE			4'-0"	D
	7. 825V SINGLE PHASE			4'-0"	D
	8. 960V SINGLE PHASE			4'-0"	D
	9. 1140V SINGLE PHASE			4'-0"	D
	10. 1380V SINGLE PHASE			4'-0"	D
	11. 1500V SINGLE PHASE			4'-0"	D
	12. 1710V SINGLE PHASE			4'-0"	D
FIRE ALARM	1. 120V SINGLE PHASE			4'-0"	F
	2. 240V SINGLE PHASE			4'-0"	F
	3. 277V SINGLE PHASE			4'-0"	F
	4. 480V SINGLE PHASE			4'-0"	F
	5. 600V SINGLE PHASE			4'-0"	F
	6. 720V SINGLE PHASE			4'-0"	F
	7. 825V SINGLE PHASE			4'-0"	F
	8. 960V SINGLE PHASE			4'-0"	F
	9. 1140V SINGLE PHASE			4'-0"	F
	10. 1380V SINGLE PHASE			4'-0"	F
	11. 1500V SINGLE PHASE			4'-0"	F
	12. 1710V SINGLE PHASE			4'-0"	F

SYSTEM	ITEM	DEVICE MODEL # REFER TO SPECS IF NONE LISTED	BACKBOX COVER IF APPLICABLE	MOUNTING HEIGHT (TO BOTTOM OF BOX)	DRAWING SYMBOL
SECURITY	1. 120V SINGLE PHASE			4'-0"	SEC
	2. 240V SINGLE PHASE			4'-0"	SEC
	3. 277V SINGLE PHASE			4'-0"	SEC
	4. 480V SINGLE PHASE			4'-0"	SEC
	5. 600V SINGLE PHASE			4'-0"	SEC
	6. 720V SINGLE PHASE			4'-0"	SEC
	7. 825V SINGLE PHASE			4'-0"	SEC
	8. 960V SINGLE PHASE			4'-0"	SEC
	9. 1140V SINGLE PHASE			4'-0"	SEC
	10. 1380V SINGLE PHASE			4'-0"	SEC
	11. 1500V SINGLE PHASE			4'-0"	SEC
	12. 1710V SINGLE PHASE			4'-0"	SEC



- GENERAL NOTES:
- REFER TO ARCHITECT'S CASEWORK/PARTITION DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - CONTRACTOR SHALL FOLLOW CIRCUITING LAY-OUT WITH THREE (3) BRANCH PROTECTIVE DEVICES (BPD) AS SHOWN ON THE FLOOR PLANS OR SHALL PROVIDE EQUIVALENT PROTECTION AS APPROVED BY THE LOCAL PERMITS OFFICE. ALL PHASE CONDUCTORS PER N.E.C. TABLE #310 NOTES #8(1), AND USE SIZE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER NINE - TABLE #390.
 - REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES, ETC., REFER ALSO TO THE ARCHITECT'S CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - ALL LIGHTING CONTROLLER SHALL BE CONNECTED USING A DIGITAL, LOW VOLTAGE CONTROL CABLE.
 - LIGHTING CONTROL RELAYS SHALL BE LOCATED 8'-12" ABOVE ACCESSIBLE CEILING SPACE OF RESPECTIVE CONTROL SWITCHES.
 - EMERGENCY BRASS RELAYS ARE TO BE CIRCUITED USING CIRCUIT ADJACENT TO SIGNAL. REFER TO PANEL SCHEDULE FOR WIRE AND CIRCUIT SIZING. PROVIDE A BRASS RELAY FOR EACH EMERGENCY LIGHT AND DOUBLE SWITCHED DEPENDENT TO ALL EMERGENCY BRASS RELAYS.
 - FIGURE X IS TO BE CIRCUITED USING NEAREST UNBROKEN EMERGENCY CIRCUIT. BRASS RELAY USE #12 WIRE, #12 GROUND IN #4 CONDUIT.

REFER TO E3.1 FOR VET CLINIC LIGHTING PLAN

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ACADEMIC BUILDING AREA "A" - LIGHTING PLAN

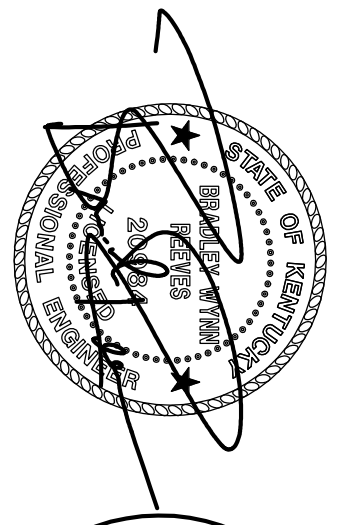
ACADEMIC BUILDING AREA "A" - LIGHTING PLAN
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

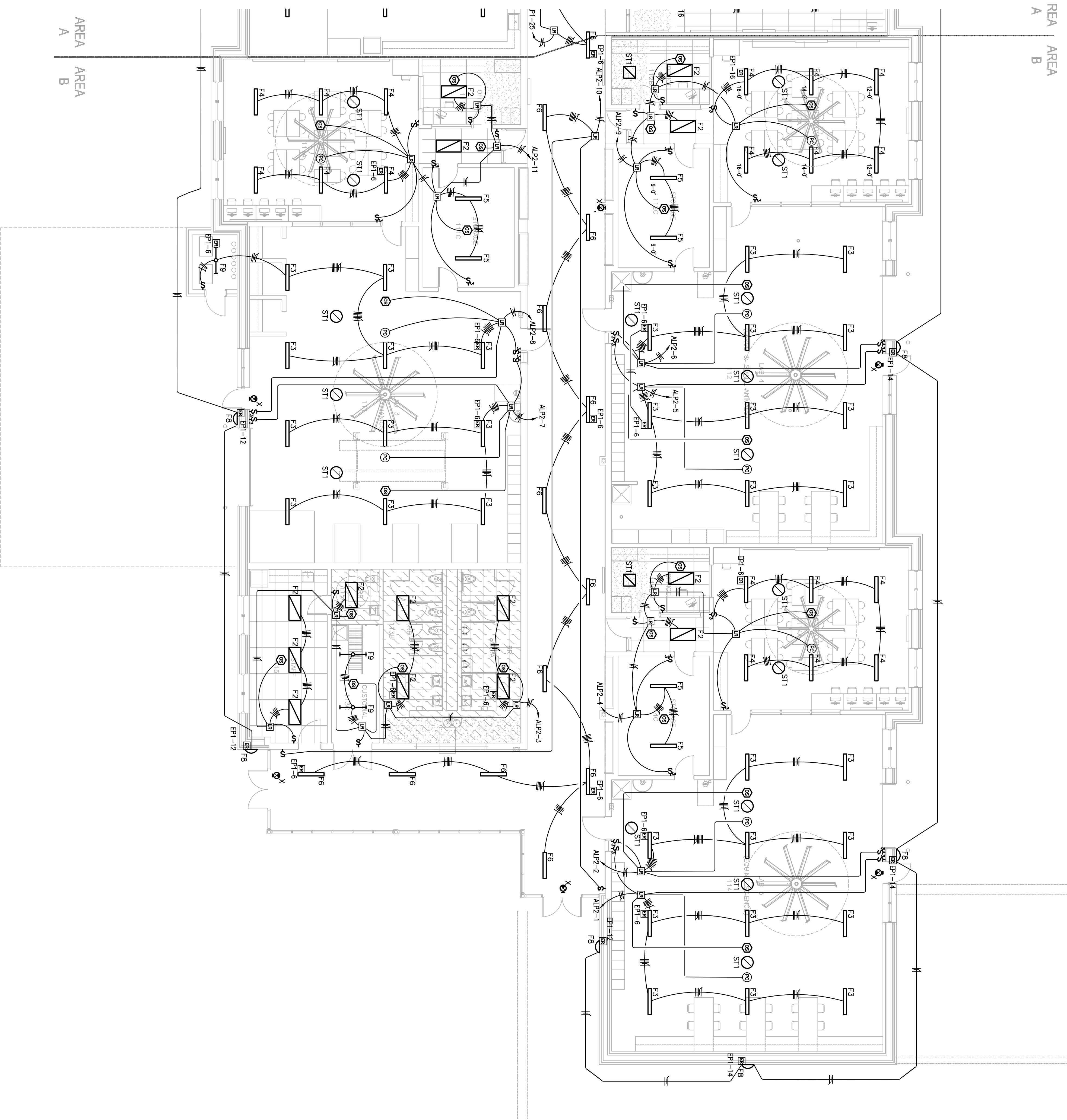
Proj. # 0901
 Date: 5/24/2010
 Drawn: IWF
 Checked: IWF
 Revised:

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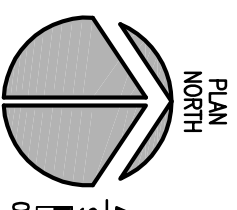
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- GENERAL NOTES:
- A. REFER TO ARCHITECT'S CASEWORK/FURNITURE DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - B. CONTRACTOR SHALL FOLLOW CEILING LAY-OUT WITH THREE (3) BRANCH CIRCUITS-MAXIMUM PER HOLDING, AS INDICATED ON THE ROOM PLANS OR SHALL CONSULT WITH THE ARCHITECT FOR ANY SPECIAL REQUIREMENTS. ALL BRANCH CONDUCTORS, DESHIELD ALL PHASE CONDUCTORS PER N.E.C. TABLE 430.9 NOTES #8(a), AND UPSIDE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER NINE - TABLE #9B.
 - C. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES ETC. REFER ALSO TO THE ARCHITECT'S CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - D. ALL LIGHTING CONTROLLER SHALL BE CONNECTED USING A DIGITAL LOW VOLTAGE CONTROL CABLE.
 - E. LIGHTING CONTROL RELAYS SHALL BE LOCATED 8'-12" ABOVE ACCESSIBLE CEILING SPACE OF RESPECTIVE CONTROL SWITCHES.
 - F. EMERGENCY BYPASS RELAYS ARE TO BE CIRCUITED USING CIRCUIT ADVANCE TO SIGNAL REFER TO PANEL SCHEDULE FOR WIRE AND CIRCUIT SIZES, PROVIDE A CIRCUIT ADVANCE TO ALL EMERGENCY BYPASS RELAYS.
 - G. PROVIDE V.S. TO BE CIRCUITED USING NEAREST UNBUNDLED EMERGENCY CIRCUIT. CIRCUITS USE #12 WIRE, #12 GROUND IN 1' CONDUIT.

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ACADEMIC BUILDING AREA "B" - LIGHTING PLAN

E2.0B

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Revised:

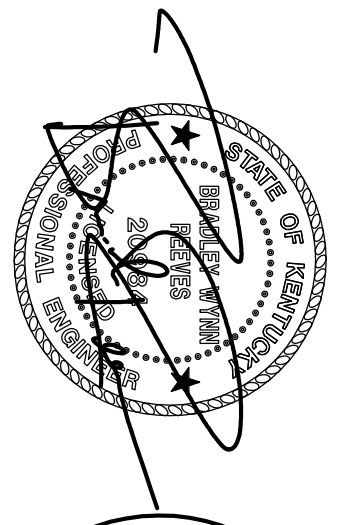
ACADEMIC BUILDING AREA "B" - LIGHTING PLAN

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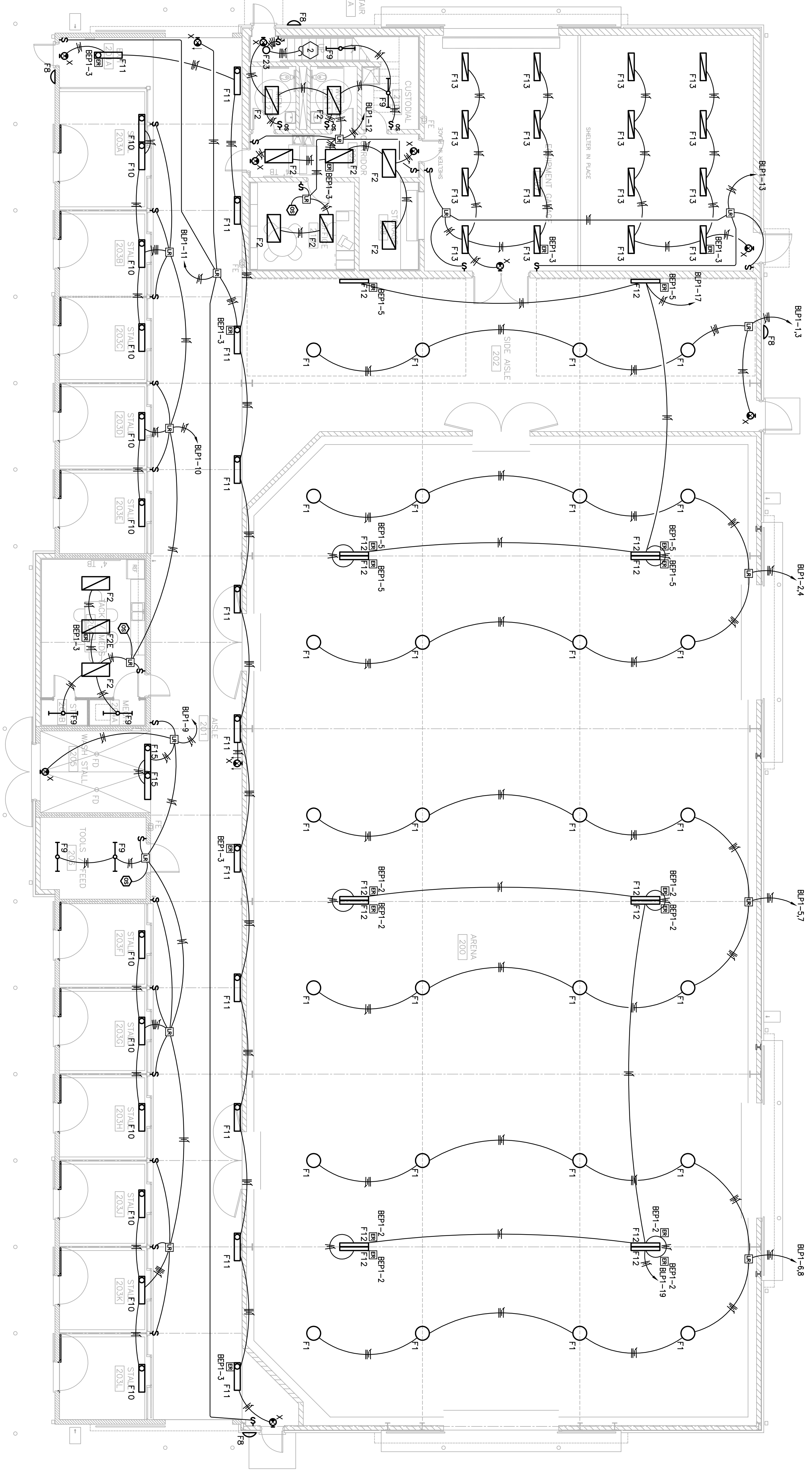
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**FIRST FLOOR LIGHTING PLAN
 SHOW ARENA AND CLASSROOM**
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 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

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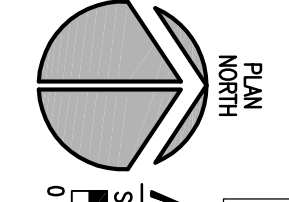
- GENERAL NOTES:**
- REFER TO ARCHITECT'S CROWN/RAINFIRE DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - CONTRACTOR SHALL FOLLOW CROWNING LAY-OUT WITH THREE (3) BRANCH CIRCUITS—MAXIMUM PER HORIZONTAL, AS INDICED ON THE FLOOR PLANS OR SHALL AND ONE NEUTRAL CONDUCTOR FOR EVERY ADDITIONAL THREE (3) PHASE CONDITIONS. OBTAIN ALL PHASE CONDITIONS PER I.E.C. TABLE #310 NOTES #8(6), AND OBTAIN OWNER'S (S) RESPONSE FOR FIELD CHANGES. (SEE TABLE #310)
 - REFER TO THE ARCHITECT'S SELECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES. REFER ALSO TO THE ARCHITECT'S CROWNING LIGHT FIXTURES, ETC. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF CEILING MOUNTED LIGHT FIXTURES FOR EACH CONSTRUCTION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - ALL LIGHTING CONTROLLER SHALL BE CONNECTED USING A DIGITAL LOW VOLTAGE CONTROL CABLE.
 - LIGHTING CONTROL BEAMS SHALL BE LOCATED 8'-12" ABOVE ACCESSIBLE CEILING SPACE OF RESPECTIVE CONTROL SWITCHES.
 - EMERGENCY BEAMS SHALL BE LOCATED 8'-12" ABOVE ACCESSIBLE CEILING SPACE. REFER TO PANEL SCHEDULE FOR WIRE AND CIRCUIT SIZES. PROVIDE A NORMAL UNSWITCHED SENSOR LINE AND LOCALLY SWITCHED EMERGENCY TO ALL EMERGENCY BEAMS RELAYS.
 - FRITURE X IS TO BE CIRCUITED USING NEAREST UNSWITCHED EMERGENCY CIRCUIT. CIRCUITS USE #12 WIRE, #12 GROUND IN 2" CONDUIT.
- TABLED NOTES:**
- PROVIDE PROGRAMMABLE SWITCH TO CONTROL HORSE STALL LIGHTING.
 - REFER TO SHEET E2.1B FOR CONTINUATION OF CIRCUIT.

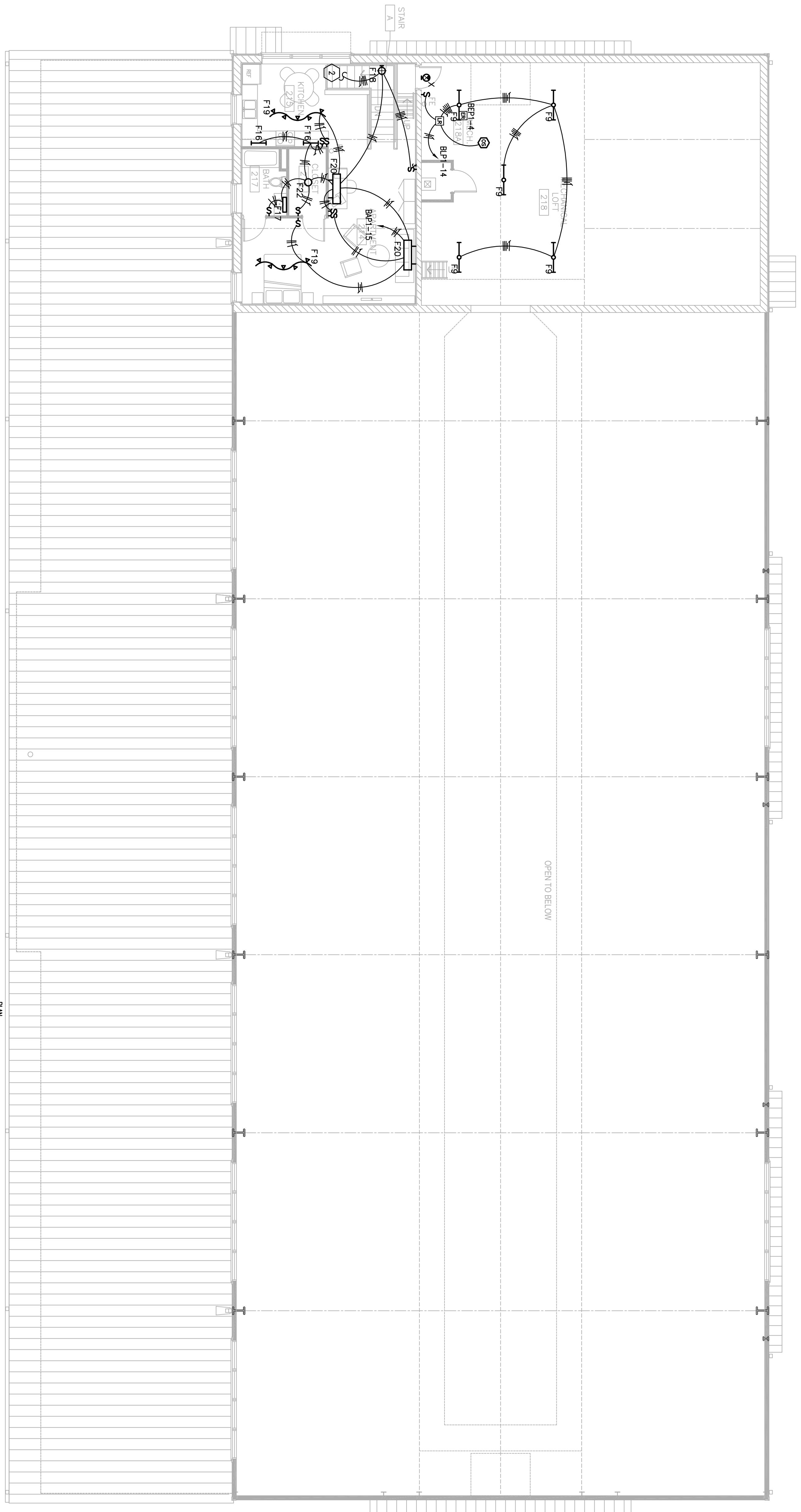
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	F:\PROJECTS\2010\0501\0501-0000\0501-0000 - E2.1A.dwg Project No. 0901 Date: 5/24/2010 Drawn: IWF	FAYETTE COUNTY PUBLIC SCHOOLS Locust Trace Equine AgriScience Farm 3591 Leestown Road Lexington, KY 40511	TITLE: ARENA EMERGENCY LIGHTING	DATE: 5/24/2010 SCALE: N.T.S. DRAWN BY: IWF CHECKED BY: IWF	E2.1A.2

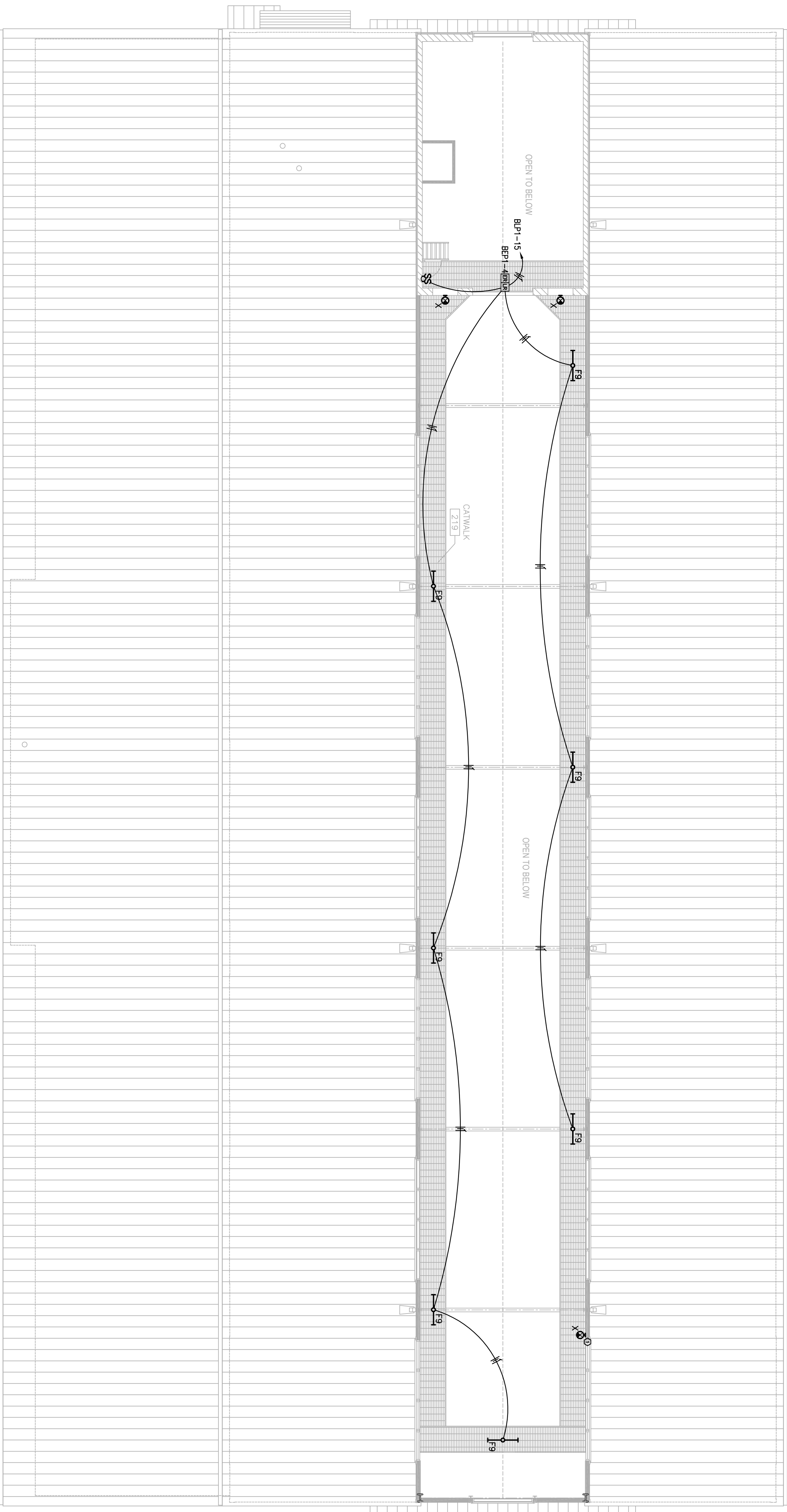
ARENA BUILDING FIRST FLOOR - LIGHTING PLAN

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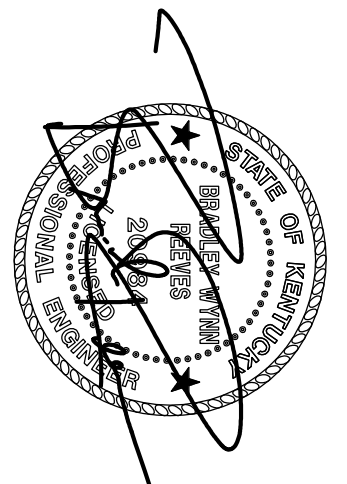
PLAN NORTH
SCALE: 1/8" = 1'-0"
SHOW ARENA AREA "B" - LIGHTING PLAN



PLAN NORTH
SCALE: 1/8" = 1'-0"
SHOW ARENA AREA "C" - LIGHTING PLAN

- GENERAL NOTES:
- REFER TO ARCHITECT'S CRAWLER/FLOORING, STAIRS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - CONDUCTORS SHALL FOLLOW EXISTING JUNCTION WITH THREE (3) BRANCH POINTS. ALL PHASE CONDUCTORS SHALL BE IDENTIFIED BY COLOR AND NUMBER. ADD ONE NEUTRAL CONDUCTOR FOR EVERY ADDITIONAL THREE (3) PHASE CONDUCTORS. IDENTIFY ALL PHASE CONDUCTORS PER N.E.C. TABLE #310 NOTES #9(a), AND UPSIZE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER 900 - TABLE #308.
 - REFER TO THE ARCHITECT'S RELATED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES, ETC., REFER ALSO TO THE ARCHITECT'S CRAWLER AND FLOORING PLANS FOR EXACT CONDUIT AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - ALL LIGHTING CONTROLLER SHALL BE CONNECTED USING A SERIAL LOW VOLTAGE SIGNALING CABLE.
 - LIGHTING CONTROL RELAYS SHALL BE LOCATED 8'-12" ABOVE ACCESSIBLE CEILING SPACE OR NEARBY CONTROL SWITCHES.
 - EMERGENCY BRASS RELAYS ARE TO BE CIRCUITED USING CIRCUIT ADJACENT TO NEAREST UNBROKEN SENSITIVE LINE AND LOCALLY SWITCHED DEDICATED TO ALL EMERGENCY BRASS RELAYS.
 - EXPOSURE X IS TO BE CIRCUITED USING NEAREST UNBROKEN EMERGENCY CIRCUIT. CIRCUITS USE #12 WIRE, #12 GROUND IN 3" CONDUIT.

- TAGGED NOTES:
- PROVIDE EXIT SIGN FOR THE ESCAPE LAUNDER, COORDINATE EXACT LOCATION WITH ARCHITECT.
 - REFER TO SHEET E2.1A FOR CONTINUATION OF CIRCUIT.



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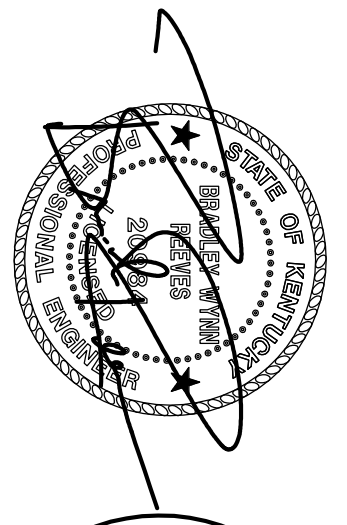
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SHOW ARENA AREA "B" & "C" - LIGHTING PLAN
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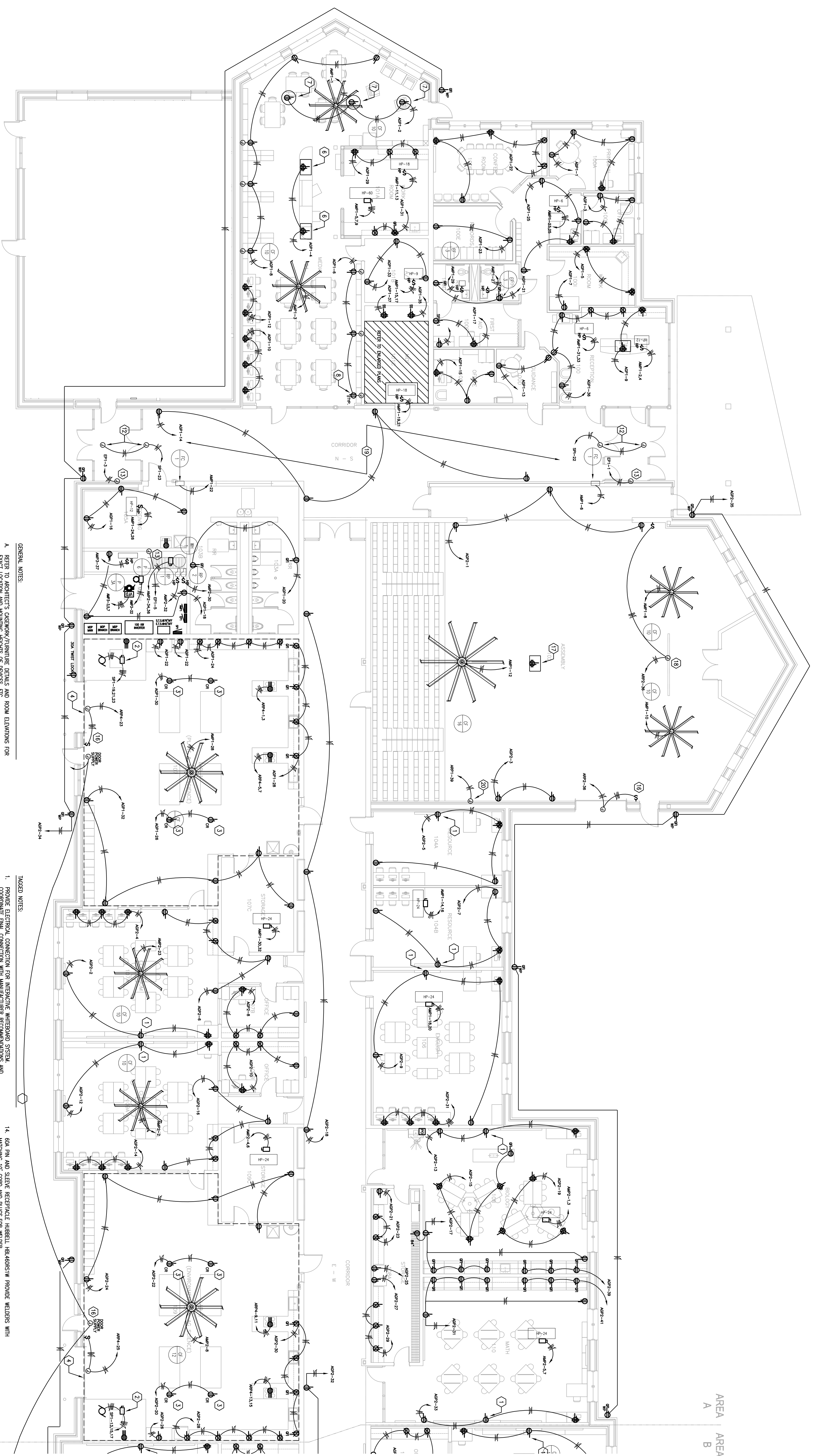
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ACADEMIC BUILDING AREA "A" – POWER PLAN
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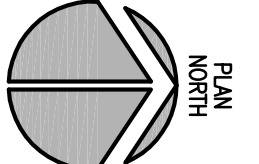
- GENERAL NOTES:**
- REFER TO ARCHITECT'S CASEWORK/FURNITURE DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - PROVIDE RILL Wires IN ALL LIGHT CONDUITS LEFT FOR FUTURE USE.
 - VOICE, DATA, FIRE ALARM, SECURITY, AND SOUND CONDUITS TO BE 1" MINIMUM UNLESS OTHER WIRE REQUIRE.
 - CONTRACTOR SHALL FOLLOW CIRCUITING LAY-OUT WITH THREE (3) BRANCH AND ONE NEUTRAL CONDUCTORS FOR EACH CIRCUIT. THREE (3) PHASE OR CONDUCTORS, DERIVE ALL PHASE CONDUCTORS PER N.E.C. TABLE 310 NOTES #9(A), AND UPSIZE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER WIRE - TABLE #3B.
 - CONTRACTOR SHALL OFF-SET BACK TO BACK OUTLETS 6".
 - ALL PANGLOSS WIRE LOCATED IN MECHANICAL ROOM SHALL BE PREPARED, PRIMED AND PAINTED TO MATCH THE SURROUNDING WALL FINISH. PAINT SHALL BE PER ARCHITECT STANDARDS AND SPECIFICATIONS.
 - REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES ETC., REFER ALSO TO THE ARCHITECT'S CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES - ETC.
 - ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (U.O.M.).
 - THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM, SECURITY, TELEVISION, COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE BULB AND 36" FROM ANY POWER TRANSFORMER.
 - CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR STUDENT'S WORKSTATION AND INSTRUCTOR'S WORKSTATION WITH SUPPLIER AND FINAL WORKSTATION SHOP DRAWINGS PRIOR TO INSTALLATION AND WIRE COMPLETE.

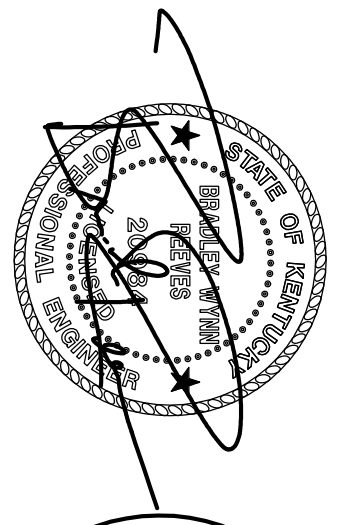
- TRAGED NOTES:**
- PROVIDE ELECTRICAL CONNECTION FOR INTERACTIVE WHITEBOARD SYSTEM COORDINATE RILL CONNECTION WITH MANUFACTURER RECOMMENDATIONS AND OWNER COORDINATION.
 - PROVIDE 300V/250V/2P DISCONNECT SWITCH FUSED AT EQUIPMENT MANUFACTURER RATING AS REQUIRED BY SUPPLIER NEW DISCONNECT SWITCH, ETC.
 - PROVIDE ELECTRICAL RECEPTACLE CORD REEL. REEL TO BE MOUNTED TO STRUCTURAL ROOF.
 - STEEL/ALUMINUM/BRASS LOCATED IN SLAB IN THIS AREA SHALL BE TIED TOGETHER USING #12 GROUND WIRE AND THE SYSTEM SHALL BE TIED TO BUILDING GROUND.
 - PROVIDE WALL MOUNTED 40' CORD REEL AND RECEPTACLE CIRCUIT SHALL BE GFI PROTECTED.
 - PROVIDE REGULAR FLOOR BOX WITH FLOOR MATERIAL INSERT. PROVIDE UTILITIES SHOWN AND COORDINATE WITH UTILITIES SHOWN ELECTRICAL SYSTEMS ARCHITECTURAL PLANS AND COORDINATE WITH THE FINAL CASEWORK LOCATION.
 - PROVIDE SOUND FLOOR BOX. PROVIDE UTILITIES SHOWN AND COORDINATE WITH UTILITIES SHOWN ELECTRICAL SYSTEMS PLANS EXACT LOCATION OF THE BOX SHALL BE DIMENSIONED FROM ARCHITECTURAL PLANS AND COORDINATE WITH THE FINAL CASEWORK LOCATION.
 - PROVIDE SOUND FLOOR BOX. PROVIDE UTILITIES SHOWN AND COORDINATE WITH UTILITIES SHOWN ELECTRICAL SYSTEMS ARCHITECTURAL PLANS AND COORDINATE WITH THE FINAL CASEWORK LOCATION.
 - PROVIDE RECEPTACLE IN FRONT OF CASEWORK TOWER. REFER TO DETAILS FOR REQUIREMENTS.
 - PROVIDE MOUNTING OF SOLAR PHOTOVOLTAIC PANELS TO STANDING SEAM METAL ROOF USING SS CLIPS. REFER TO MOUNTING DETAILS FOR REQUIREMENTS.
 - ALL CONDUIT SHALL BE MOUNTED TO ROOF STRUCTURE WITH CLIPS ATTACHED TO METAL ROOF - REFER TO DETAILS FOR REQUIREMENTS.
 - ALL ELECTRICAL CONDUITS SHALL BE ROUTED TO NORTH ROOF EDGE AND WILL REMAIN IN THE WALL TO PENETRATE INTO BUILDING. REFER TO DETAILS FOR REQUIREMENTS.
 - PROVIDE ELECTRICAL POWER CONNECTIONS FOR DOOR OPERATOR TRANSDUCER SUPPLIER.
 - PROVIDE ELECTRICAL CONNECTION FOR DOOR OPERATOR TRANSDUCER SUPPLIER.
 - PROVIDE ELECTRICAL CONNECTION FOR FIRE ALARM PANEL.

SCALE: 1/8" = 1'-0"

ACADEMIC BUILDING AREA "A" – POWER PLAN

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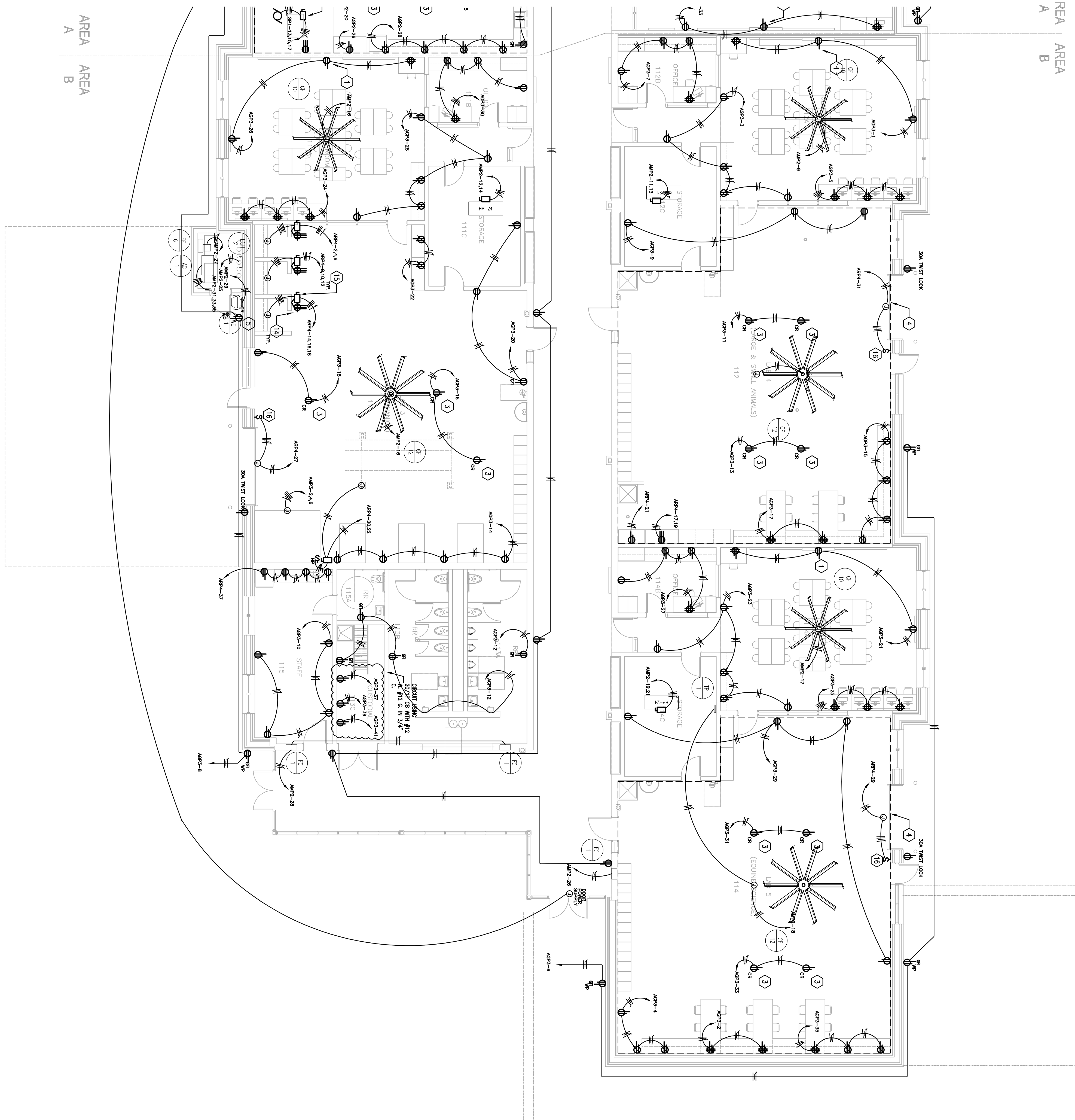
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ACADEMIC BUILDING AREA "B" – POWER PLAN
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

Proj. # 0901
 Date: 5/24/2010
 Drawn: IWF
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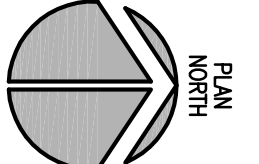
GENERAL NOTES:

- A. REFER TO ARCHITECT'S CASEWORK/FURNITURE DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
- B. PROVIDE PULL WIRES IN ALL EMPTY CONDUITS LEFT FOR FUTURE USE.
- C. VOICE DATA, FIRE ALARM, SECURITY, AND SOUND CONDUITS TO BE 1" MINIMUM UNLESS OTHER WIRE REQUIRED.
- D. CONTRACTORS SHALL FOLLOW GENERAL LAY-OUT WITH THREE (3) BRANCH CIRCUITS-MANUAL PER HUBERLIN, AS NOTED ON THE FLOOR PLANS OR SHALL PROVIDE ONE NEUTRAL CONDUCTOR FOR EVERY ADDITIONAL THREE (3) PHASE CONDUCTORS. DERIVE ALL PHASE CONDUCTORS PER N.E.C. TABLE #310 NOTES #30, AND UPSIZE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER NINE - TABLE #30.
- E. CONTRACTOR SHALL GFI-SET BACK TO BACK OUTLETS 6"
- F. ALL PANELBOARDS NOT LOCATED IN MECHANICAL ROOM SHALL BE PREPARED, FINISHED AND PAINTED TO MATCH THE SURROUNDING WALL FINISH. PAINT SHALL BE PER ARCHITECT'S SAMPLES AND SPECIFICATIONS.
- G. REFER TO THE ARCHITECT'S SELECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES, ETC. REFER ALSO TO THE ARCHITECT'S MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
- H. ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.G.W.).
- I. THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM, SECURITY, TELEVISION, COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE, BULBSET AND 36" FROM ANY POWER TRANSDUCER.
- J. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR STUDENT'S WORKSTATION AND INSTRUCTOR'S WORKSTATION WITH SUPPLIER AND FINAL WORKSTATION SHOP DRAWINGS FROM TO INSULATION AND WIRE CONDUIT.

TASKED NOTES:

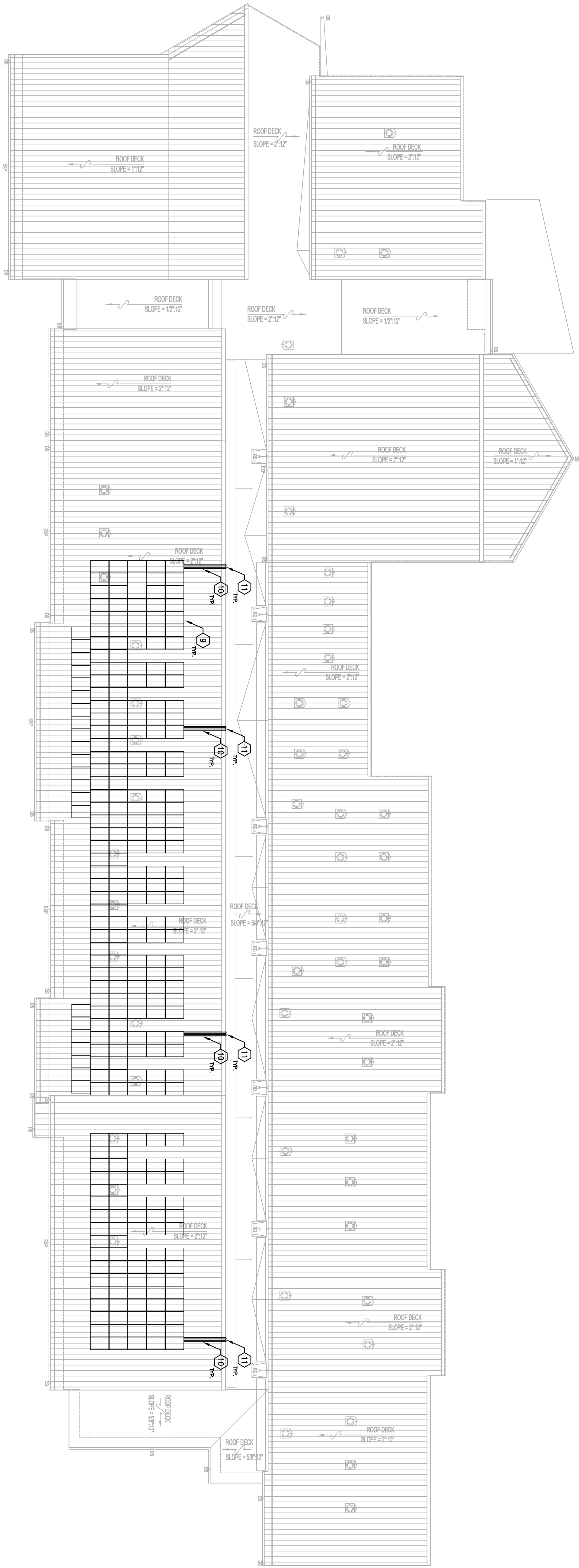
1. PROVIDE ELECTRICAL CONNECTION FOR INTERACTIVE WHITEBOARD SYSTEM OWNER COORDINATION.
2. PROVIDE 30A/250V/2P DISCONNECT SWITCH FUSED AT EQUIPMENT RATED BREAKING CAPACITY WITH 1/2" MINIMUM CLEARANCE FROM ALL SURROUNDING FRAMING AS REQUIRED TO SUPPORT NEW DISCONNECT SWITCH, ETC.
3. PROVIDE ELECTRICAL RECEPTACLE CORD REEL. REEL TO BE MOUNTED TO STRUCTURE ABOVE.
4. STEEL MESH/SCREEN LOCATED IN SLAB IN THIS AREA SHALL BE TIED TOGETHER USING #12 GROUND WIRE AND THE SYSTEM SHALL BE TIED TO GROUND.
5. PROVIDE WALL MOUNTED 40' CORD REEL AND RECEPTACLE CIRCUIT SHALL BE 90A PROTECTED.
6. PROVIDE RECTANGULAR FLOOR BOX WITH FLOOR MATERIAL INSERT. PROVIDE FINISH. EXACT LOCATION OF THE BOX SHALL BE DIMENSIONED FROM ARCHITECTURAL PLANS AND COORDINATED WITH THE FINAL CASEWORK LOCATION.
7. PROVIDE ROUND FLOOR BOX. PROVIDE UTILITIES SHOWN AND COORDINATE WITH UTILITIES SHOWN ELECTRICAL SYSTEMS. EXACT LOCATION OF THE BOX SHALL BE DIMENSIONED FROM ARCHITECTURAL PLANS AND COORDINATED WITH THE FINAL CASEWORK LOCATION.
8. PROVIDE RECEPTACLE IN FRONT OF CASEWORK TOODOCK. REFER TO DETAILS FOR REQUIREMENTS.
9. PROVIDE MOUNTING OF SOLAR PHOTOVOLTAIC PANELS TO STANDING SEAM METAL ROOF USING SS CLIPS. REFER TO MOUNTING DETAILS FOR REQUIREMENTS.
10. ALL CONDUIT SHALL BE MOUNTED TO ROOF STRUCTURE WITH CLIPS ATTACHED TO METAL ROOF. REFER TO DETAILS FOR REQUIREMENTS.
11. ALL ELECTRICAL CONDUITS SHALL BE SORTED TO VERTICALLY FROM TOP AND RUN DOWN THE WALL TO PENETRATE INTO BUILDING. REFER TO DETAILS FOR REQUIREMENTS.
12. PROVIDE ELECTRICAL POWER CONNECTIONS FOR DOOR OPERATOR TRANSDUCERS LOCATED ABOVE CEILING. COORDINATE EXACT CONNECTION WITH DOOR HARDWARE SUPPLIER.
13. PROVIDE ELECTRICAL CONNECTION FOR FIRE ALARM PANEL.
14. 80A R/N AND STEEP RECEPTACLE HERBELL-HARDNESS/W PROVIDE WELDERS WITH WATCHING 10' CORD AND PLUGS FOR WELDER.
15. PROVIDE 60A/250V/2P DISCONNECT SWITCH (USED AT EQUIPMENT RATED BREAKING CAPACITY), PROVIDE WITH NEMA-1 ENCLOSURE.
16. PROVIDE UP/STOP/DOWN PUSH-BUTTON CONTROLLER FOR ROLL-UP DOOR OPERATOR.
17. PROVIDE RECTANGULAR FLOOR BOX WITH BRASS METAL TOP FLUSH WITH SLAB FINISH. PROVIDE UTILITIES SHOWN AND COORDINATE WITH UTILITIES SHOWN ELECTRICAL ARCHITECTURAL PLANS.
18. PROVIDE ELECTRICAL CONNECTION FOR WORKSHOP PROTECTIVE SCREEN. PROVIDE A CENTER TESTING TOGGLE SWITCH FOR UP/DOWN CONTROL OF PROTECTION SCREEN.
19. ALL ELECTRICAL CONDUITS IN THIS AREA ARE TO BE ROUTED UNDER BUILDING SLAB. NO EXPOSED CONDUITS WILL BE ACCEPTABLE UNLESS OTHERWISE APPROVED BY ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
20. PROVIDE ELECTRICAL CONNECTION FOR IN WALL SOUND AMPLIFIER.

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ACADEMIC BUILDING AREA "B" – POWER PLAN

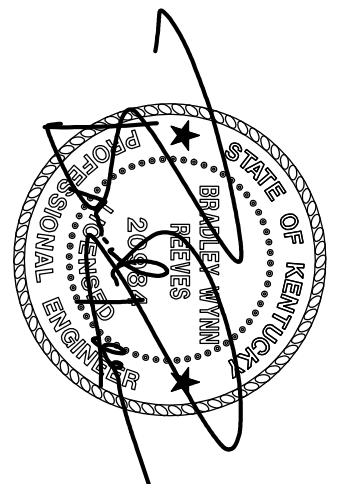
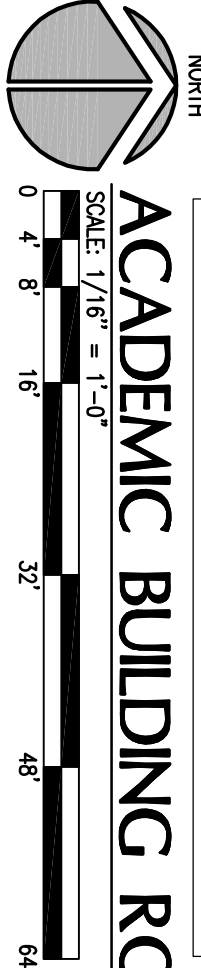
AREA A
 AREA B



- GENERAL NOTES:**
- A. REFER TO ARCHITECT'S CASWORK/FURNITURE DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - B. PROVIDE FILL WIRES IN ALL EMPTY CONDUITS LEFT FOR FUTURE USE.
 - C. VOICE DATA, FIRE ALARM, SECURITY, AND SOUND CONDUITS TO BE 1" MINIMUM UNLESS OTHER WIRE REQUIRED.
 - D. CONTRACTOR SHALL FOLLOW DRAINAGE LAY-OUT WITH THREE (3) BRANCH DRAINAGE-MAXIMUM PER ROOM/AREA, AS NOTED ON THE FLOOR PLANS OR SHALL PROVIDE MAXIMUM PER ROOM/AREA. PROVIDE ALL PAGES CONDUITS PER N.E.C. TABLE #17 NOTES #1(a) AND USE SIZE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER NINE - TABLE #18.
 - E. CONTRACTOR SHALL OFF-SET BACK TO BACK OUTLETS 6".
 - F. ALL PIPING/BORES NOT LOCATED IN MECHANICAL ROOM SHALL BE PROTECTED, FINISHED AND PAINTED TO MATCH THE SURROUNDING WALL FINISH. PAINT SHALL BE PER ARCHITECT STANDARDS AND SPECIFICATIONS.
 - G. REFER TO THE ARCHITECT'S PREFERRED CEILING PLANS FOR EXACT LOCATIONS OF CASWORK DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - H. ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.O.A.N.).
 - I. THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM, SECURITY, TELEVISION, COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE BALLAST AND 36" FROM ANY POWER TRANSFORMER.
 - J. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR STUDENTS WORKSTATION AND INSTRUCTOR'S WORKSTATION WITH SUPPLIER AND FINAL WORKSTATION SHOP DRAWINGS PRIOR TO INSTALLATION AND WIRE COMPLETE.

- TAGED NOTES:**
1. PROVIDE ELECTRICAL CONNECTION FOR INTERACTIVE WHITEBOARD SYSTEM. COORDINATE FINAL CONNECTION WITH MANUFACTURER RECOMMENDATIONS AND OWNER COORDINATION.
 2. PROVIDE 30A/250V/2P DISCONNECT SWITCH FUSED AT EQUIPMENT NAMEPLATE RATING. PROVIDE WITH NEAR-BY SURGE PROTECTION. PROVIDE JUNE-STRIP FRAMING AS REQUIRED TO SUPPORT NEW DISCONNECT SWITCH, ETC.
 3. PROVIDE ELECTRICAL RECEPTACLE CONDUIT REEL. REEL TO BE MOUNTED TO PROTECTED SURFACE.
 4. STEEL/MESH LOCATED IN SLAB IN THIS AREA SHALL BE TIED TOGETHER USING #12 GROUND WIRE AND THE SYSTEM SHALL BE TIED TO BUILDING GROUND.
 5. PROVIDE WALL MOUNTED 40' COILO REEL AND RECEPTACLE CIRCUIT SHALL BE 60A PROTECTED.
 6. PROVIDE RECOMMENDABLE FLOOR BOX WITH FLOOR MATERIAL INSERT. PROVIDE UTILITIES SHOWN AND COORDINATE WITH UTILITIES SHOWN ELECTRICAL SYSTEMS ARCHITECTURAL PLANS AND COORDINATE WITH THE FINAL CASWORK LOCATION.
 7. PROVIDE SOUND FLOOR BOX. PROVIDE UTILITIES SHOWN AND COORDINATE WITH UTILITIES SHOWN ELECTRICAL SYSTEMS ARCHITECTURAL PLANS AND COORDINATE WITH THE FINAL CASWORK LOCATION.
 8. PROVIDE RECEPTACLE IN FRONT OF CASWORK. TIEBACK REFER TO DETAILS FOR REQUIREMENTS.
 9. PROVIDE MOUNTING OF SOLAR PHOTOVOLTAIC PANELS TO STANDING SEAM METAL ROOF USING SS CLIPS. REFER TO MOUNTING DETAILS FOR REQUIREMENTS.
 10. ALL CONDUIT SHALL BE MOUNTED TO ROOF STRUCTURE WITH CLIPS ATTACHED TO METAL ROOF. REFER TO DETAILS FOR REQUIREMENTS.
 11. ALL ELECTRICAL CONDUITS SHALL BE ROUTED TO NORTH ROOF EDGE AND WILL BE RUN DOWN SIDE WALL TO PENETRATE INTO BUILDING. REFER TO DETAILS FOR REQUIREMENTS.
 12. PROVIDE ELECTRICAL PANELED CONNECTION FOR DOOR OPERATOR TRANSFORMER SUPPLIER.
 13. PROVIDE ELECTRICAL CONNECTION FOR FIRE ALARM PANEL.
 14. MATCHING TO DGD AND PLANS FOR WELDER.

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 Record Documents Date: 02/29/2012



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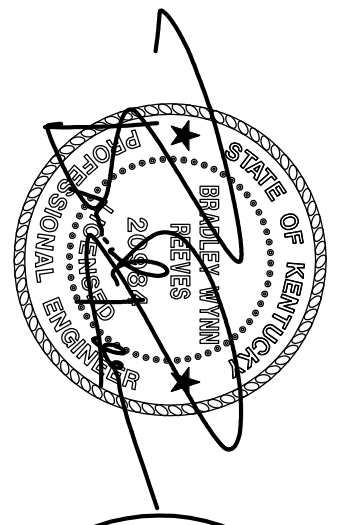
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E3.0C

Proj. # 0901
 Date: 5/24/2010
 Drawn: IWF
 Checked: IWF
 Revised:

ACADEMIC BUILDING ROOF - POWER PLAN

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 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511



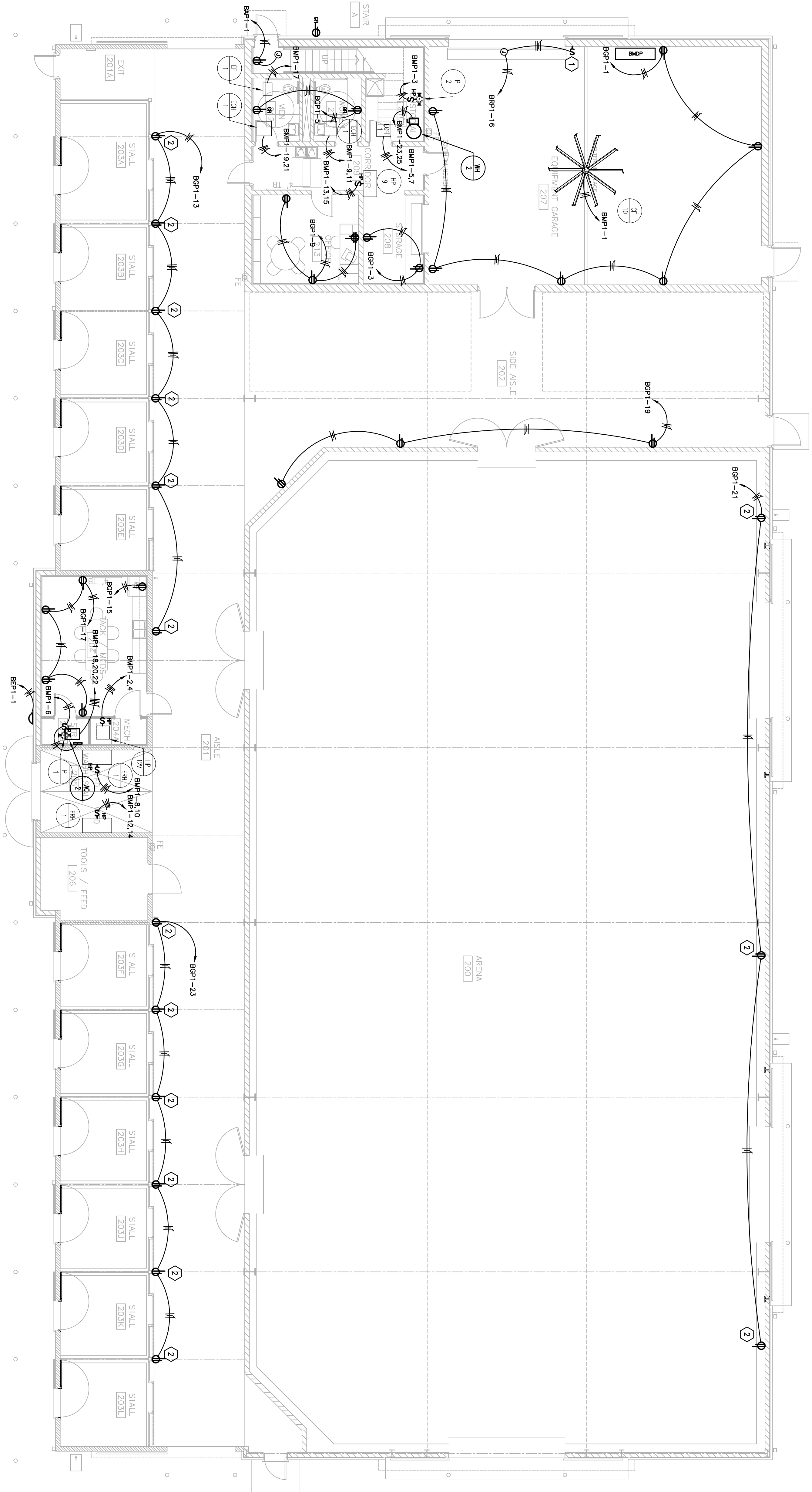
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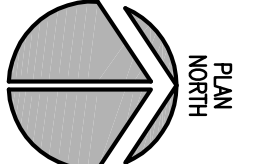
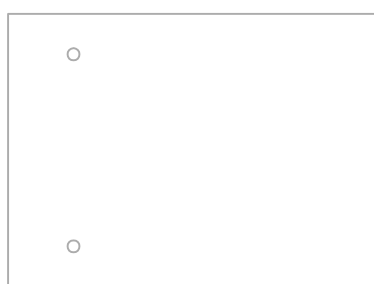
**FIRST FLOOR POWER PLAN
 SHOW ARENA AND CLASSROOM**
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

Proj. # 0901
 Date: 5/24/2010
 Drawn: IWF
 Checked: IWF
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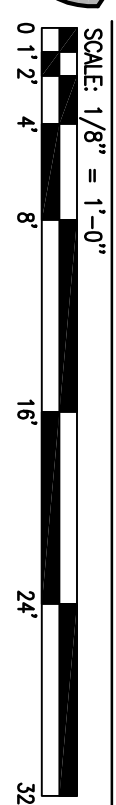


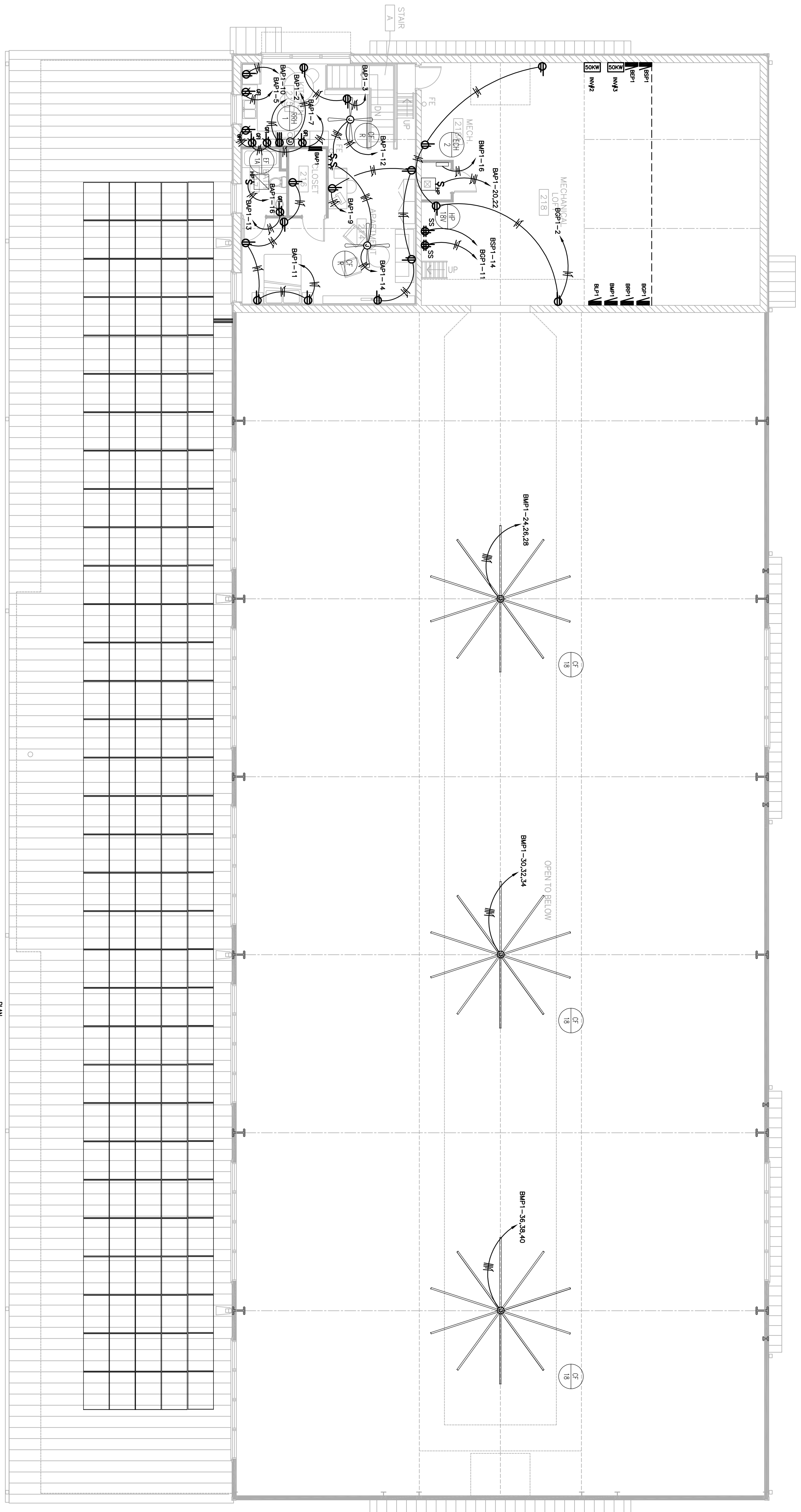
- TABED NOTES:**
1. PROVIDE UP/STOP/DOWN PUSH-BUTTON CONTROLLER FOR ROLL-UP DOOR OPERATOR.
 2. MOUNT RECEPTACLE OUTLET AT 5'0" AFF.



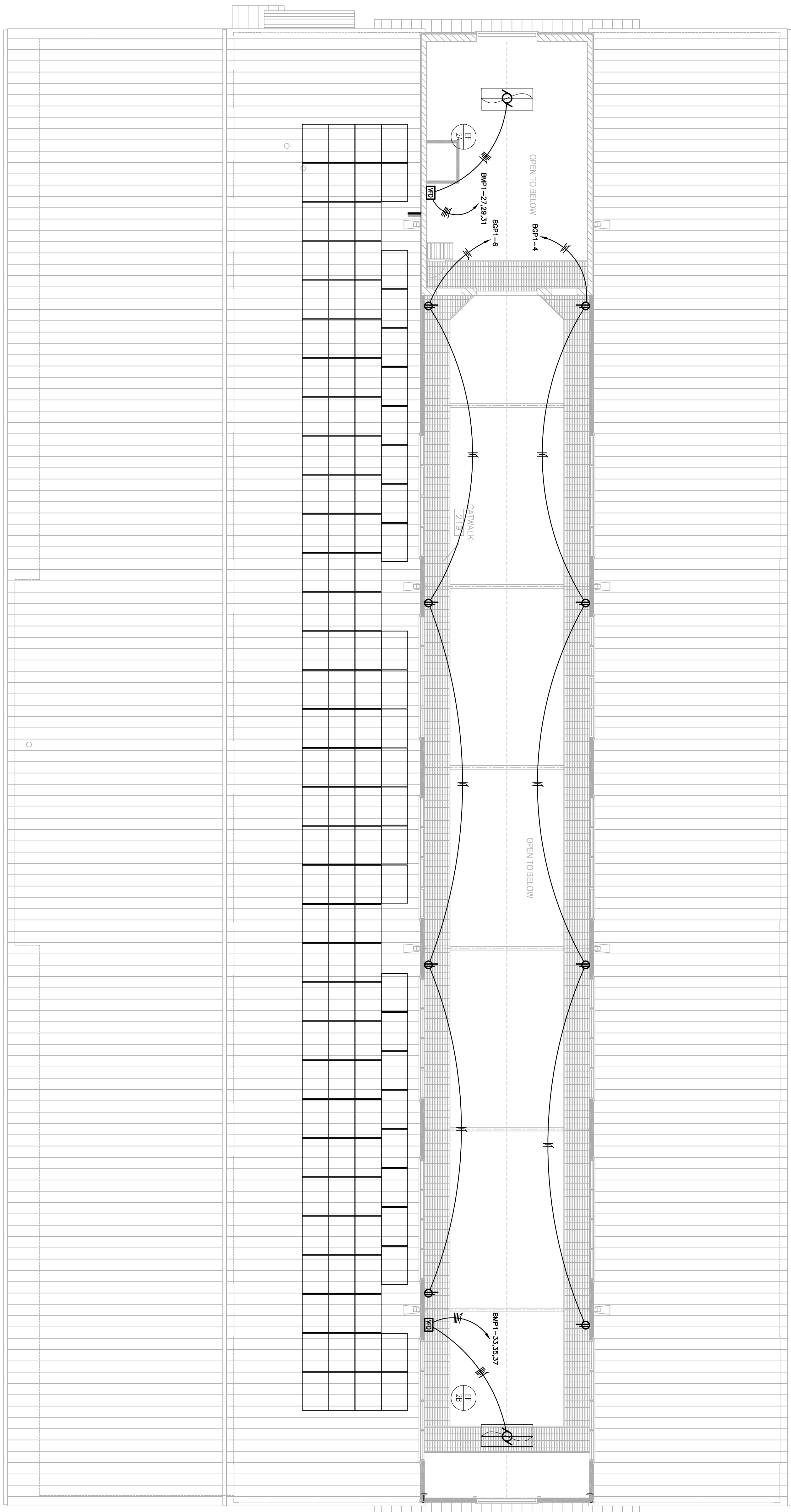
ARENA BUILDING FIRST FLOOR – POWER PLAN

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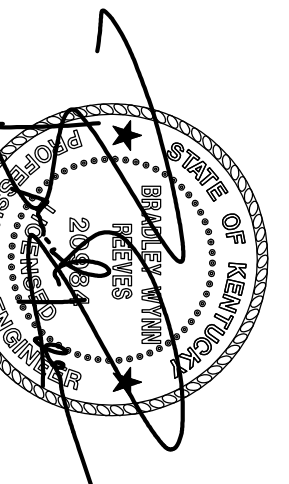




PLAN NORTH
SCALE: 1/8" = 1'-0"
SHOW ARENA SECOND FLOOR - LIGHTING PLAN



PLAN NORTH
SCALE: 1/8" = 1'-0"
SHOW ARENA THIRD FLOOR - LIGHTING PLAN



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SECOND/THIRD FLOOR POWER PLAN
SHOW ARENA AND CLASSROOM

FAYETTE COUNTY PUBLIC SCHOOLS
Locust Trace Equine AgriScience Farm
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Proj. #: 0901
Date: 5/24/2010
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Revised:

E3.1B

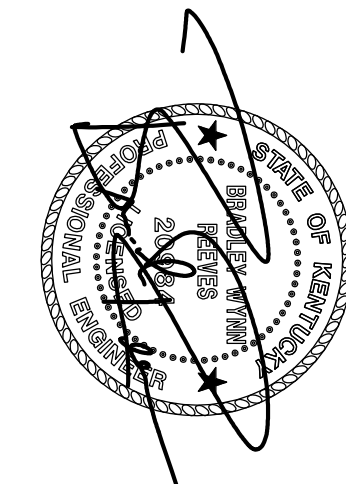
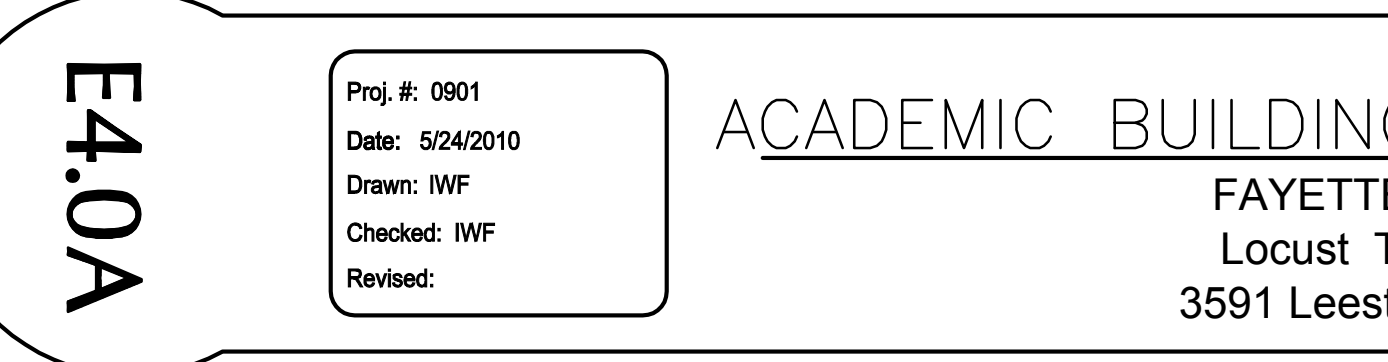
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- *A.226
REFER TO DRAWINGS E4.0A, E4.0B, E4.1A, E4.1B, AND E4.1.
- A. AT EACH PROJECTOR MOUNT LOCATION, PROVIDE AND INSTALL AN 8" SELF-POWERED, SELF-CONTAINED SPEAKER WITH MINIMUM 5 OHM IMPEDANCE & 15W POWER RATING WITH BRACKETS MOUNTED IN T-CROSS WHEN CEILING IS PRESENT AND MOUNTED TO THE PERIMETER OF THE ROOM. PROVIDE AND INSTALL AN 8" SELF-POWERED, SELF-CONTAINED SPEAKER WITH MINIMUM 5 OHM IMPEDANCE & 15W POWER RATING WITH BRACKETS MOUNTED IN T-CROSS WHEN CEILING IS PRESENT AND ACCEPTABLE CONNECTION TO PROJECTOR, AS REQUIRED. SPEAKERS SHALL BE INDEPENDENTLY SUSPENDED FROM BUILDING STRUCTURE BY MECHANICAL, FASTENING WITH HANGERS OR STRAPS.
- B. PROVIDE 1"-2" STAPLES FROM CORRIDOR CABLE TRAY INTO LAB 1, LAB 2, LAB 3, LAB 4, LAB 5, ASSUMERX, STORAGE 108A, AND RESOURCE 108B.
- C. PROVIDE DATA OUTLET AT EVERY PROJECTOR ROUGH-IN OR INSTALLATION LOCATION.
- *A.227
- A. REFER TO CORRIDOR N-S ASSEMBLY VESTIBULE WALL, PROVIDE 2 DATA 1' CAVY COMBINATION OUTLET AT VEST. SINKS MONITOR LOCATION, COMBINATION OUTLET IS TO BE LOCATED IN WALL INSET FOR MONITOR MOUNTING BRACKET.
- B. REFER TO CORRIDOR 108B SOUTH WALL.
- C. PROVIDE ROUGH-IN DEFINED AS TAGGED NOTE #2 FOR SHORT THROW PROJECTOR UNIT.
- D. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S.
- E. REFER TO ASSEMBLY 102; REFER TO TAGGED NOTE #4.
- F. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- G. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- H. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- I. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- J. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- K. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- L. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- M. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- N. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- O. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- P. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- Q. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- R. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- S. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- T. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- U. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- V. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- W. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- X. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- Y. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.
- Z. REFER TO CORRIDOR N-S; PROVIDE 3 DATA OUTLETS SPACED EVENLY ON CABLE TRAY ADJACENT TO CORRIDOR N-S DIMENSIONING.

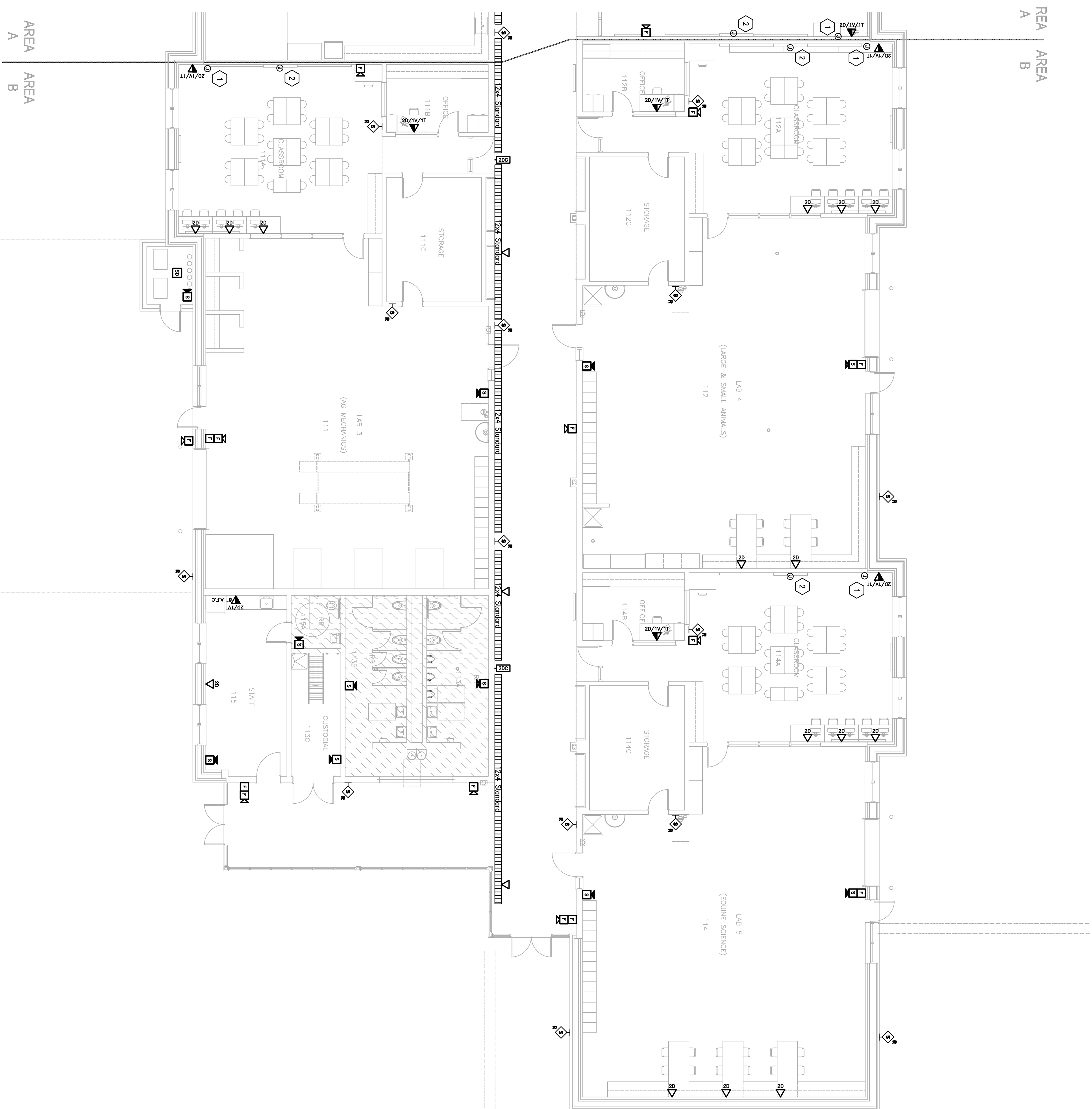
- GENERAL NOTES:
- A. REFER TO ARCHITECT'S CASEWORK/FURNITURE DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
- B. PROVIDE WALL WIRES IN ALL EMPTY CONDUITS LEFT FOR FUTURE USE.
- C. VOICE DATA, FIRE ALARM, SECURITY, AND SOUND CONDUITS TO BE 1" MINIMUM UNLESS OTHER WISE REQUIRED.
- D. CONTRACTOR SHALL FOLLOW CIRCUITING LAY-OUT WITH THREE (3) BRANCH CIRCUITS-MAXIMUM PER HOOKUP, AS NOTED ON THE FLOOR PLANS OR SHALL PROVIDE THE SAME FOR THE CONTRACTOR'S REVIEW. THE CONTRACTOR SHALL VERIFY ALL WIRE TYPES AND USE SIZE CONDUIT AS/IF REQUIRED PER I.E.C. CHAPTER NINE - TABLE #90.1 AND USE SIZE CONDUIT AS/IF REQUIRED PER I.E.C. CHAPTER NINE - TABLE #9B.
- E. CONTRACTOR SHALL OFF-SET BACK TO BACK OUTLETS 4".
- F. ALL PNEUMATICS NOT LOCATED IN MECHANICAL ROOM SHALL BE PROVIDED.
- G. ALL CEILING MOUNTED LIGHT FIXTURES ETC., REFER ALSO TO THE ARCHITECT'S CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
- H. ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.O.G.N.).
- I. THE CONTRACTOR SHALL VERIFY ALL SOUND, TELEPHONE, FIRE ALARM, SECURITY, TELEVISION, COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE, BUILDUP AND 36" FROM ANY POWER TRANSDUCER.
- J. CONTRACTOR SHALL CORRECT ALL ELECTRICAL REQUIREMENTS FOR STUDENTS WORKSTATION AND INSTRUCTORS WORKSTATION WITH SUPPLIER AND FINAL WORKSTATION SHOP DRAWINGS PRIOR TO INSTALLATION AND WIRE COMPLETE.

- TAGGED NOTES:
1. PROVIDE PWS3XT DEVICE BOX WITH DOUBLE GANG EXTENSION RING AT 44" AFF FOR TEACHERS WORK STATION. PROVIDE 2" CONDUIT FROM JUNCTION BOX TO ABOVE CEILING SPACE.
2. PROVIDE PWS3XT DEVICE BOX WITH DOUBLE GANG EXTENSION RING AT 44" AFF FOR SWABBOARD CONNECTIONS, COORDINATE EXACT PLACEMENT WITH ARCHITECTURAL PLANS AND ROOM ELEVATIONS FOR EXACT COORDINATION FOR PROJECTOR.
3. PROVIDE RECTANGULAR FLOOR BOX WITH GARG METERS, NEAREST APPROXIMATE DIMENSIONS AND COORDINATE WITH UTILITIES SHOWN ON ELECTRICAL POWER PLANS. EXACT LOCATION OF THE BOX SHALL BE DIMENSIONED FROM ARCHITECTURAL PLANS AND COORDINATED WITH THE FINAL CASEWORK LOCATION.
4. PROVIDE UTILITIES SHOWN AND COORDINATE WITH UTILITIES SHOWN ON ELECTRICAL POWER PLANS. PROVIDE MICROPHONE INSET 1/8" STEREO WHEN 2 REX INSET JACKS ROUTED TO IN WALL AMPLIFIER.
5. PROVIDE WALL INSETS FOR MICROPHONE, 1/8" STEREO, AND 2 RCA ROUTED TO IN WALL AMPLIFIER.
6. IN WALL SOUND SYSTEM AMPLIFIER, ROUTE ALL SOUND SYSTEM DEVICES THROUGH AMPLIFIER.
7. THREE SPEAKER CLUSTERS MOUNT AT 15 DEGREE ANGLE DOMINANT EYE WITH BOTTOM OF STRUCTURE.
8. CABLE TRAY TO BE EXTENDED INTO VET CLINIC UNDER ALTERNATE #7.

These record documents have been prepared on the basis of information furnished by the client. The architect assumes no liability for any errors or omissions which may have been incorporated into this document as a result of information furnished by the client. Record Documents Date: 02/29/2012



REA | AREA
A B

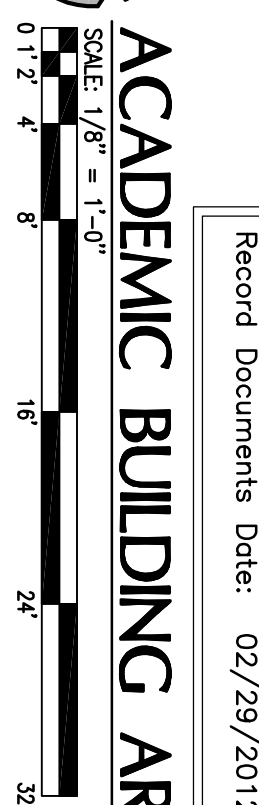
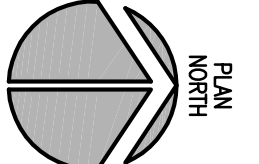


AREA
A B

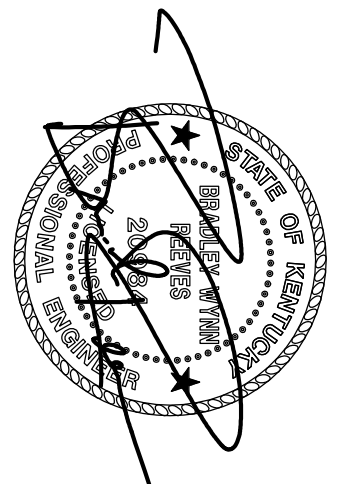
- GENERAL NOTES:**
- REFER TO ARCHITECT'S CASEWORK/TURNOUT DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - PROVIDE PULL WIRES IN ALL EMPTY CONDUITS LEFT FOR FUTURE USE.
 - VOICE DATA, FIRE ALARM, SECURITY, AND SOUND CONDUITS TO BE 1" MINIMUM UNLESS OTHER WISE REQUIRED.
 - CONTRACTOR SHALL FOLLOW CIRCUITING AT-OUT WITH THREE (3) BRANCH CIRCUITS PER WORKAREA, AS INDICATED ON THE FLOOR PLANS OR CONDUIT SCHEDULE. SWITCHES SHALL BE PROVIDED PER NEC CHAPTER 90 AND 91, AND UPSIZE CONDUIT SIZES REQUIRED PER NEC CHAPTER NINE - TABLE 318.
 - CONTRACTOR SHALL OFF-SET BACK TO BACK OUTLETS 4".
 - ALL PANDUITWORK NOT LOCATED IN MECHANICAL ROOM SHALL BE PROVIDED. ALL PANDUITWORK SHALL BE PROVIDED IN MECHANICAL ROOM. ALL PANDUITWORK SHALL BE PER ARCHITECT STANDARDS AND SPECIFICATIONS. WALL FINISH SHALL BE PER ARCHITECT'S SPECIFICATIONS FOR EXACT COORDINATION AND CEILING MOUNTED LIGHT FIXTURES, ETC. REFER ALSO TO THE ARCHITECT'S CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - REFER TO THE ARCHITECT'S SPECIFICATIONS FOR EXACT COORDINATION OF CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (IGW).
 - THE CONTRACTOR SHALL INSTALL ALL SOUND TELEPHONE FIRE ALARM SECURITY TELEVISION COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE BULB AND 36" FROM ANY POWER TRANSDUCER.
 - CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR STUDENTS WORKSTATION AND INSTRUCTORS WORKSTATION WITH SUPPLIER AND FINAL WORKSTATION SHOP DRAWINGS PRIOR TO INSTALLATION AND WIRE COMPLETE.

- TASKED NOTES:**
- PROVIDE 6"x6"x3" DEVICE BOX WITH DOUBLE GANG EXTENSION RING AT 44" AFF FOR TEACHERS WORK STATION. PROVIDE 2" CONDUIT FROM JUNCTION BOX TO ABOVE CEILING SPACE.
 - PROVIDE 6"x6"x3" DEVICE BOX WITH DOUBLE GANG EXTENSION RING AT 44" AFF FOR SWABBOARD CONNECTIONS. COORDINATE EXACT PLACEMENT WITH ARCHITECT'S CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC. PROVIDE DATA CONNECTION FOR PROUDCTOR.
 - PROVIDE RECTANGULAR FLOOR BOX WITH GANGE MOUNTED NESET. PROVIDE FINISH STRIP AND COORDINATE WITH FINISH STRIP ON ELECTRICAL POWER PLANS. EXACT LOCATION OF THE BOX SHALL BE DIMENSIONED FROM ARCHITECTURAL PLANS AND COORDINATED WITH THE FINAL CASEWORK LOCATION.
 - PROVIDE RECTANGULAR FLOOR BOX WITH BRASS METAL TOP FLUSH WITH SLAB. PROVIDE UTILITY SPACER AND COORDINATE WITH UTILITIES SHOWN ON ELECTRICAL ARCHITECTURAL PLANS. PROVIDE MICROPHONE INPUT 1/8" STEREO W/RT. 2 RCA INPUT JACKS ROUTED TO IN WALL AMPLIFIER.
 - PROVIDE WALL INPUTS FOR MICROPHONE, 1/8" STEREO, AND 2 RCA ROUTED TO IN WALL AMPLIFIER.
 - IN WALL SOUND SYSTEM AMPLIFIER. ROUTE ALL SOUND SYSTEM DEVICES THROUGH AMPLIFIER.
 - THREE SPEAKER CLUSTERS MOUNT AT 15 DEGREE ANGLE DOMINANT EYE WITH BOTTOM OF STRUCTURE.
 - CABLE TRAY TO BE EXTENDED INTO VET CLINIC UNDER ALTERNATE #7.

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ACADEMIC BUILDING AREA "B" - SYSTEMS PLAN



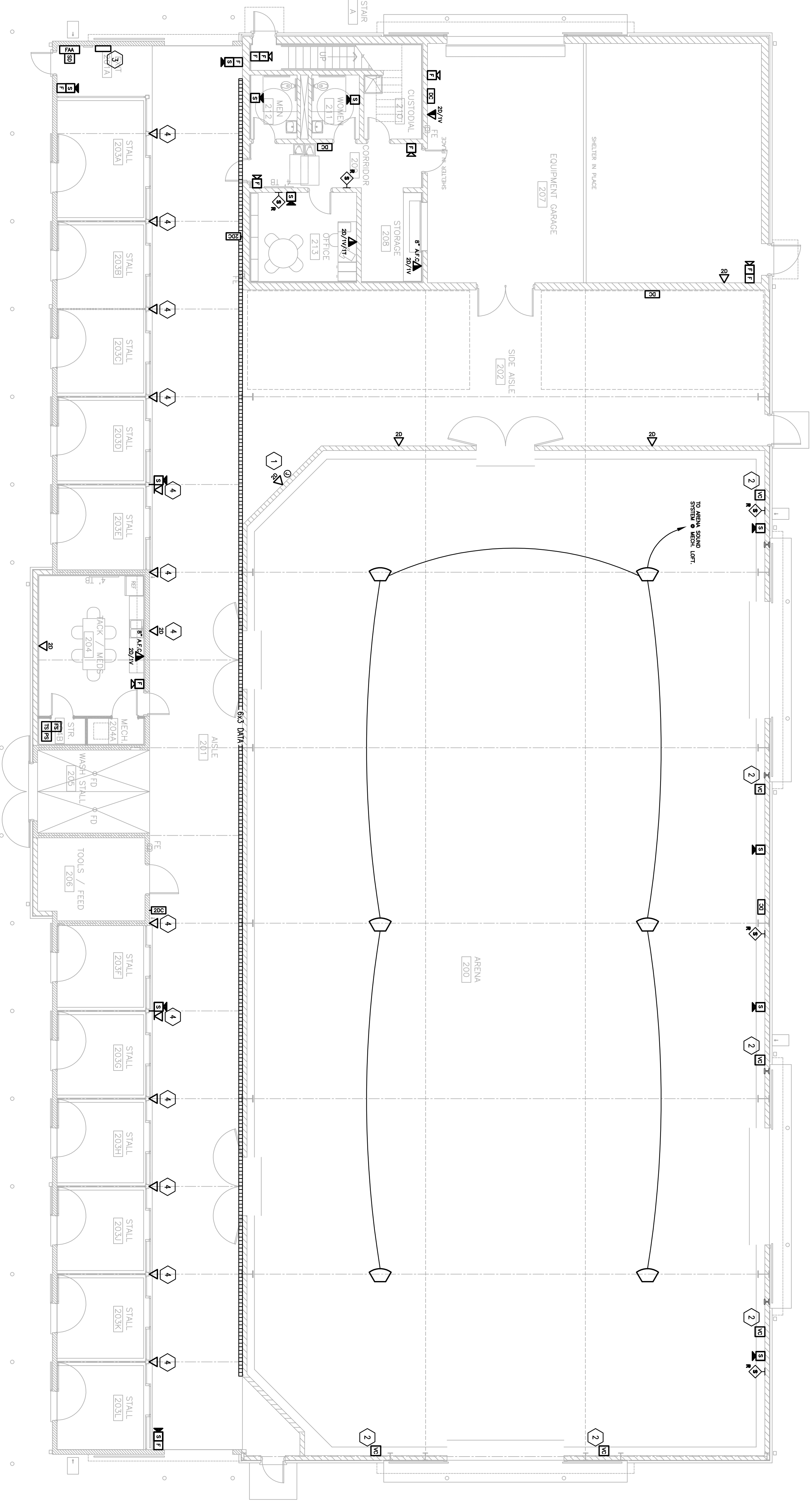
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ACADEMIC BUILDING AREA "B" - SYSTEMS PLAN
FAYETTE COUNTY PUBLIC SCHOOLS
Locust Trace Equine AgriScience Farm
3591 Leestown Road Lexington, KY 40511

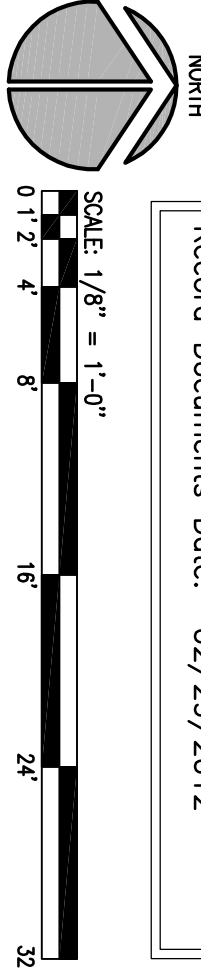
Proj. # 0901
Date: 5/24/2010
Drawn: IWF
Checked: IWF
Revised:

E4.0B



- GENERAL NOTES:**
- A. REFER TO ARCHITECT'S ORDERING/FURNITURE DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - B. PROVIDE WALL WIRING IN ALL ENTRY CONDITIONS LEFT FOR FUTURE USE.
 - C. VOICE DATA, FIRE ALARM, SECURITY, AND SOUND CONDUITS TO BE 1" MINIMUM TRADES STUBS IN THE CEILING.
 - D. CONTRACTOR SHALL FOLLOW GENERAL W/A-DUT WITH THREE (3) BRANCH AND ONE NEUTRAL CONDUCTOR FOR EVERY ADDITIONAL THREE (3) PHASE CONDUCTORS. SERVE ALL PHASE CONDUCTORS PER N.E.C. TABLE 310 NOTES #10), AND UPSIZE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER NINE - TABLE #38.
 - E. CONTRACTOR SHALL OFF-SET BACK TO BACK OUTLETS 6".
 - F. ALL PANELED DEVICES NOT LOCATED IN MECHANICAL ROOM SHALL BE PREPARED, PRIMED AND PAINTED TO MATCH THE SURROUNDING WALL FINISH. PAINT SHALL BE PER ARCHITECT STANDARDS AND SPECIFICATIONS.
 - G. REFER TO THE ARCHITECT'S SELECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES ETC. REFER ALSO TO THE ARCHITECT'S ORDERING DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES - ETC.
 - H. ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (U.G.W.).
 - I. THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM, SECURITY, TELEVISION, COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE BULB AND 36" FROM ANY POWER TRANSFORMER.
 - J. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR STUDENT'S WORKSTATION AND INSTRUCTOR'S WORKSTATION WITH SUPPLIER AND FINAL WORKSTATION SHOP DRAWINGS PRIOR TO INSULATION AND WIRE COMPLETE.

- ISSUED NOTES:**
1. SOUND SYSTEM CONNECTION FOR MOBILE SOUND UNDER.
 2. PROVIDE VOICE EVACUATION SPEAKERS.
 3. PROVIDE VOICE EVACUATION CONTROL PANEL.
 4. MOUNT DATA OUTLET AT 80" A.F.F.



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FIRST FLOOR SYSTEMS PLAN
SHOW ARENA AND CLASSROOM

FAYETTE COUNTY PUBLIC SCHOOLS
Locust Trace Equine AgriScience Farm
3591 Leestown Road Lexington, KY 40511

Proj. # 0901
Date: 5/24/2010
Drawn: IWF
Checked: IWF
Revised:

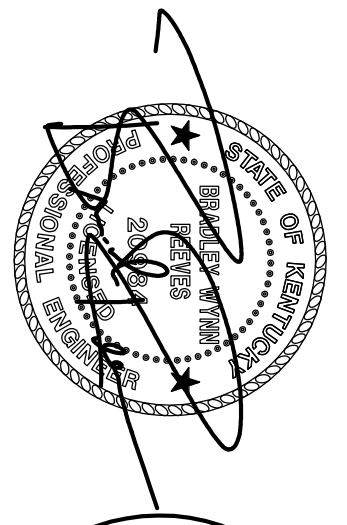
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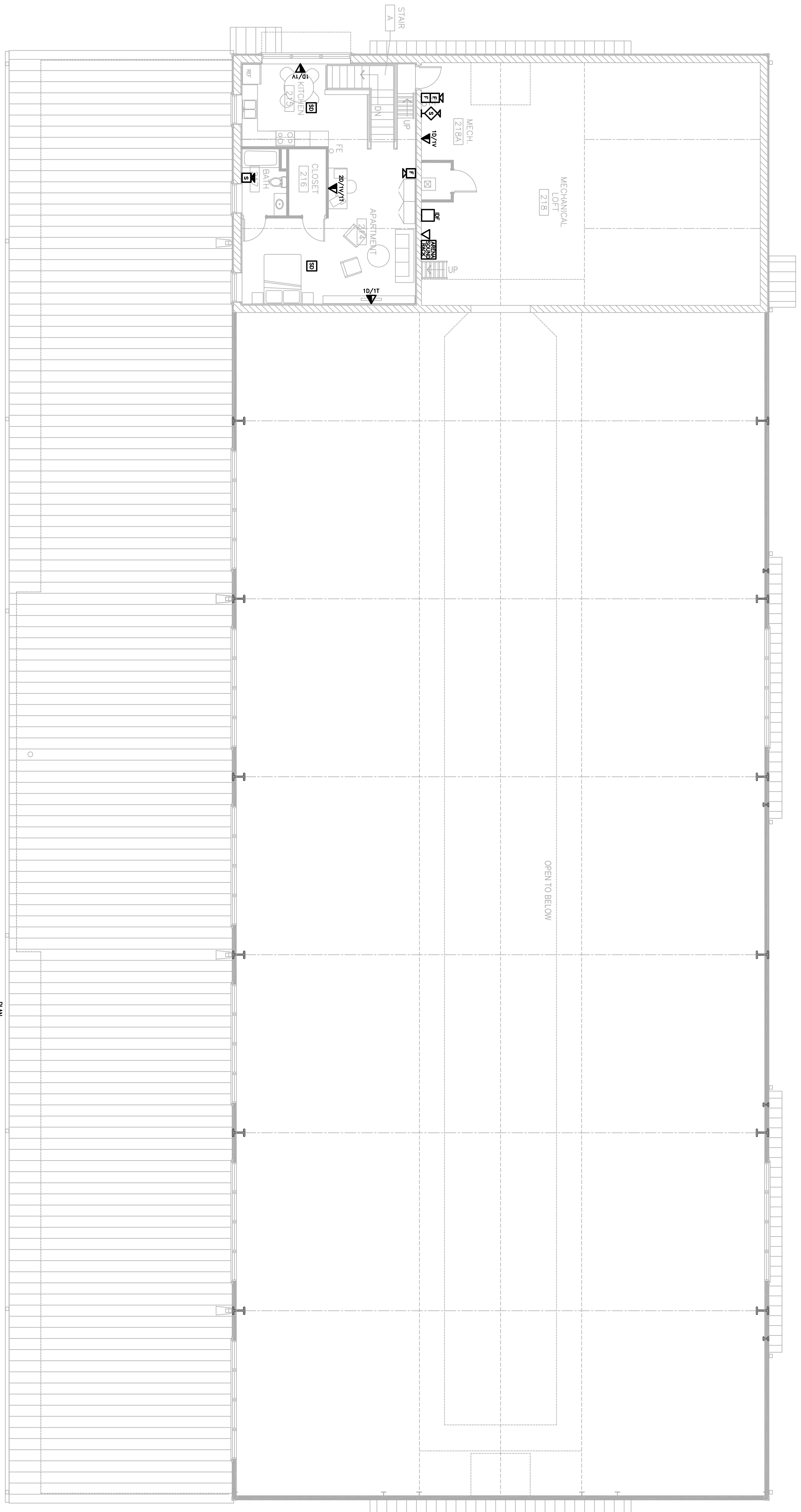
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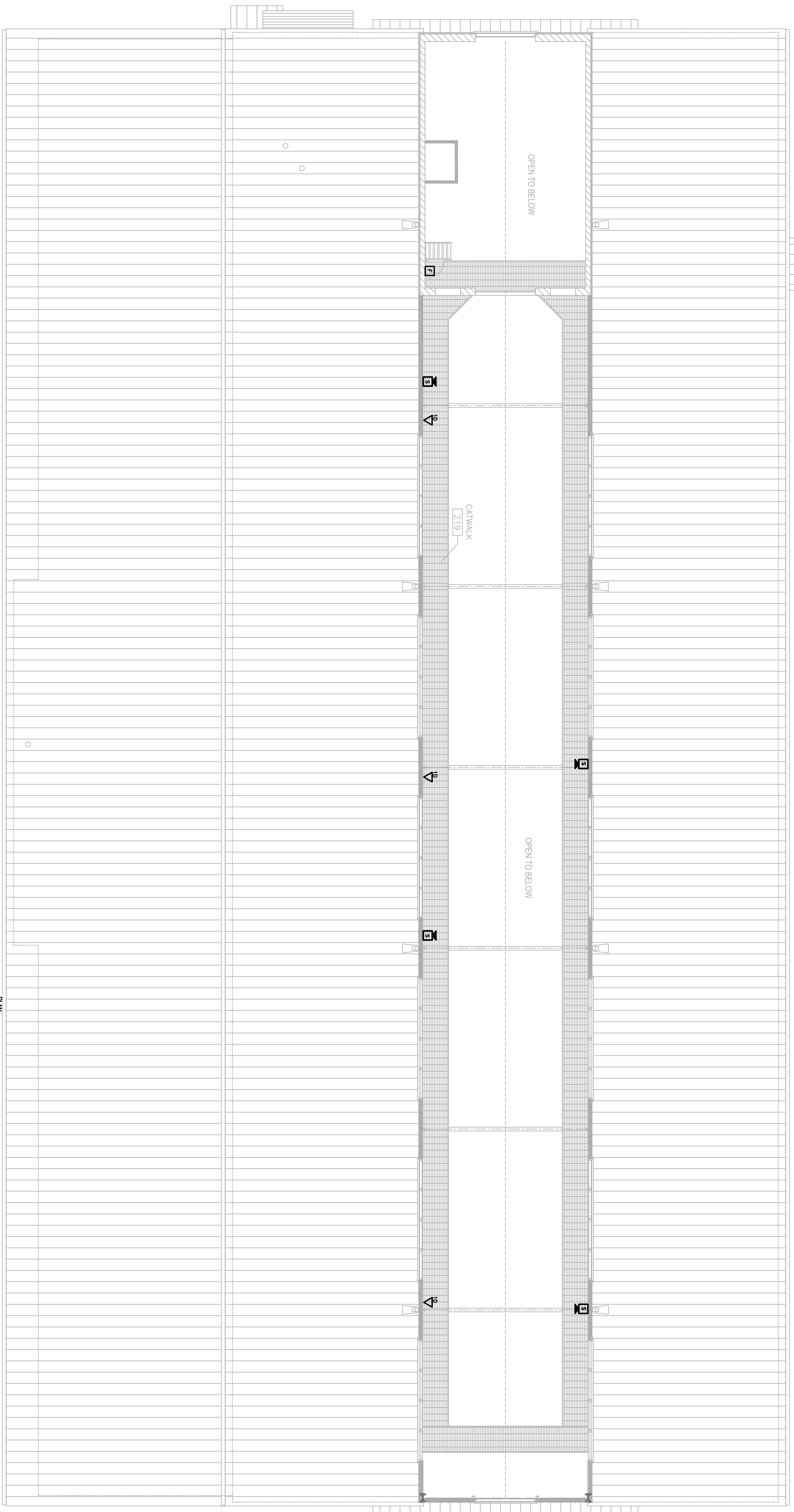
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PLAN NORTH
 SCALE: 1/8" = 1'-0"
 SHOW ARENA SECOND FLOOR - SYSTEMS PLAN



PLAN NORTH
 SCALE: 1/8" = 1'-0"
 SHOW ARENA THIRD FLOOR - SYSTEMS PLAN



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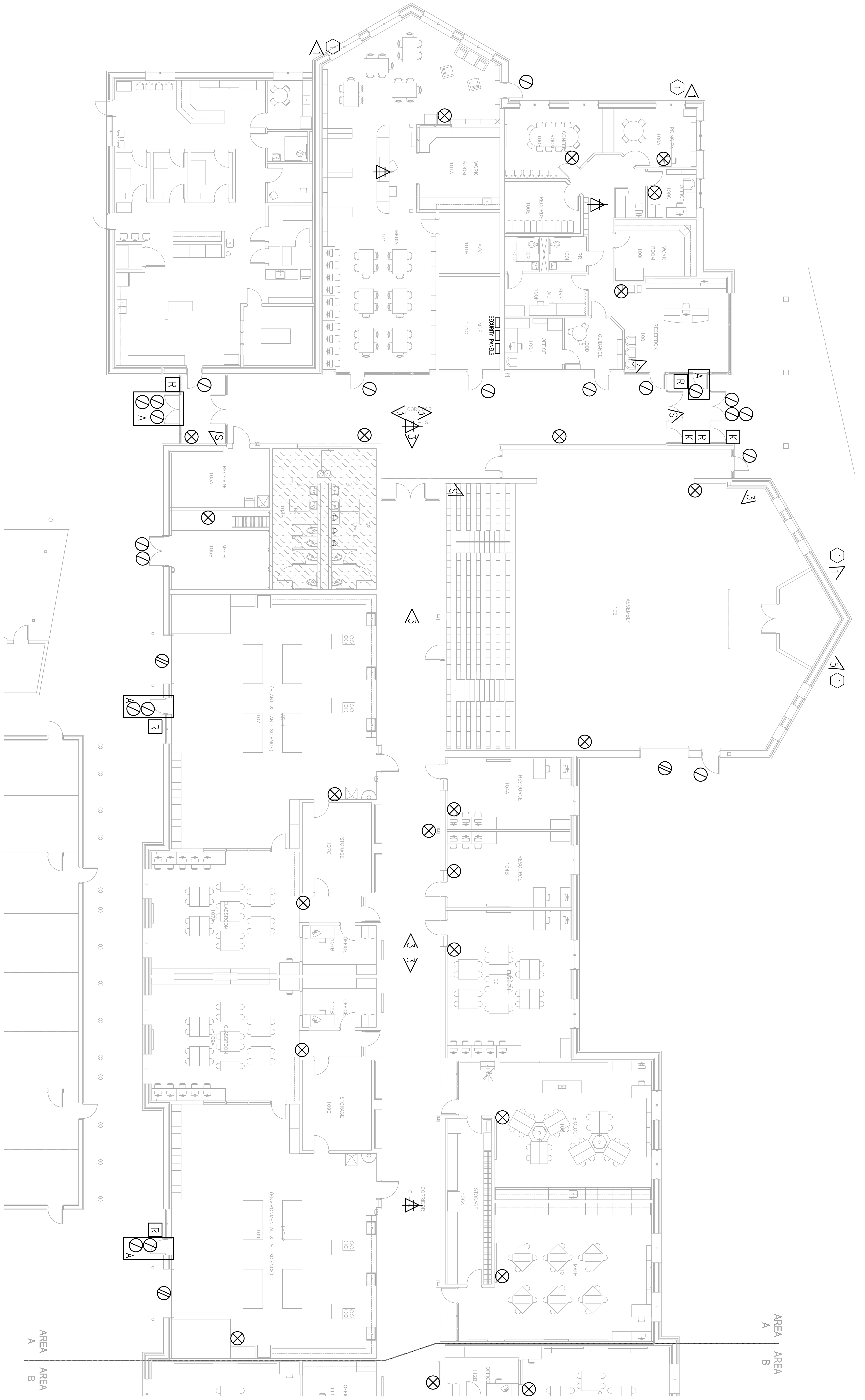
SECOND/THIRD FLOOR SYSTEMS PLAN
 SHOW ARENA AND CLASSROOM

FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

Proj. #: 0901
 Date: 5/24/2010
 Drawn: IWF
 Checked: IWF
 Revised:

E4.1B

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- GENERAL NOTES:**
- REFER TO ARCHITECT'S CUSTOMER/OWNER DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - PROVIDE PULL WIRES IN ALL EMPTY CONDUITS LEFT FOR FUTURE USE.
 - SECURITY AND CAMERA CONDUITS TO BE 1" MINIMUM UNLESS OTHERWISE REQUIRED.
 - CONTRACTOR SHALL FOLLOW CIRCUITING LV-CUT WITH THREE (3) BRANCH CIRCUITS—MAXIMUM PER ROOM/SECTION AS NOTED ON THE FLOOR PLANS OR SHALL CONDUCTORS, DEBITE ALL PHASE CONDUCTORS PER N.E.C. TABLE 410 NOTES #9(a), AND USE SIZE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER NINE - TABLE #35.
 - CONTRACTOR SHALL GROUND BACK TO BACK DEVICES &.
 - REFER TO THE ARCHITECT'S SELECTED CEILING PLANS FOR EXACT LOCATIONS OF CUSTOMER/OWNER SPECIFIED SECURITY AND CAMERA CONDUITS AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.D.N.).
 - THE CONTRACTOR SHALL INSTALL ALL SOUND TELEPHONE, FIRE ALARM SECURITY, TELEPHONE, SECURITY AND ALL OTHER SYSTEMS FROM ANY LIGHT FIXTURE, BALLAST AND 3" FROM ANY POWER TRANSFORMER.
 - ALL DEVICES (CCTV AND SECURITY) LOCATED IN AREAS WITH NO CEILING SHALL BE MOUNTED TO WALLS OR CEILING. ALL DEVICES SHALL BE MOUNTED TO WALL OR CEILING OR HELD TIGHT TO DECK/TOP OF STRUCTURE.
 - PROVIDE AS NECESSARY P.O.E. DATA SWITCHES FOR P-BASED CCTV SYSTEM. P.O.E. SWITCHES SHALL BE PROVIDED WITH POWER FROM PANEL SPT-1 A MAXIMUM PROVIDED MUST BE LISTED AS A RECOMMENDED DEVICE BY CAMERA SYSTEM MANUFACTURER.

- TAGGED NOTES:**
- CAMERA IS TO BE MOUNTED TO BUILDING EXTERIOR, EQUIPPED FOR NIGHT VISION, AND WEATHER PROOF.

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ACADEMIC BUILDING AREA "A" - SECURITY PLAN

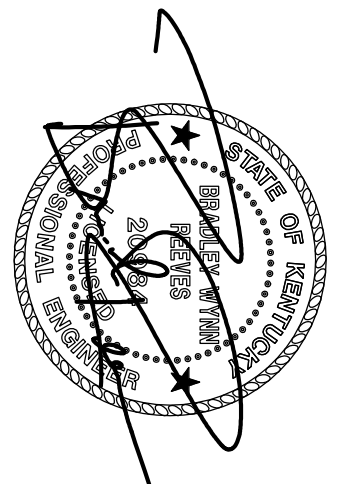
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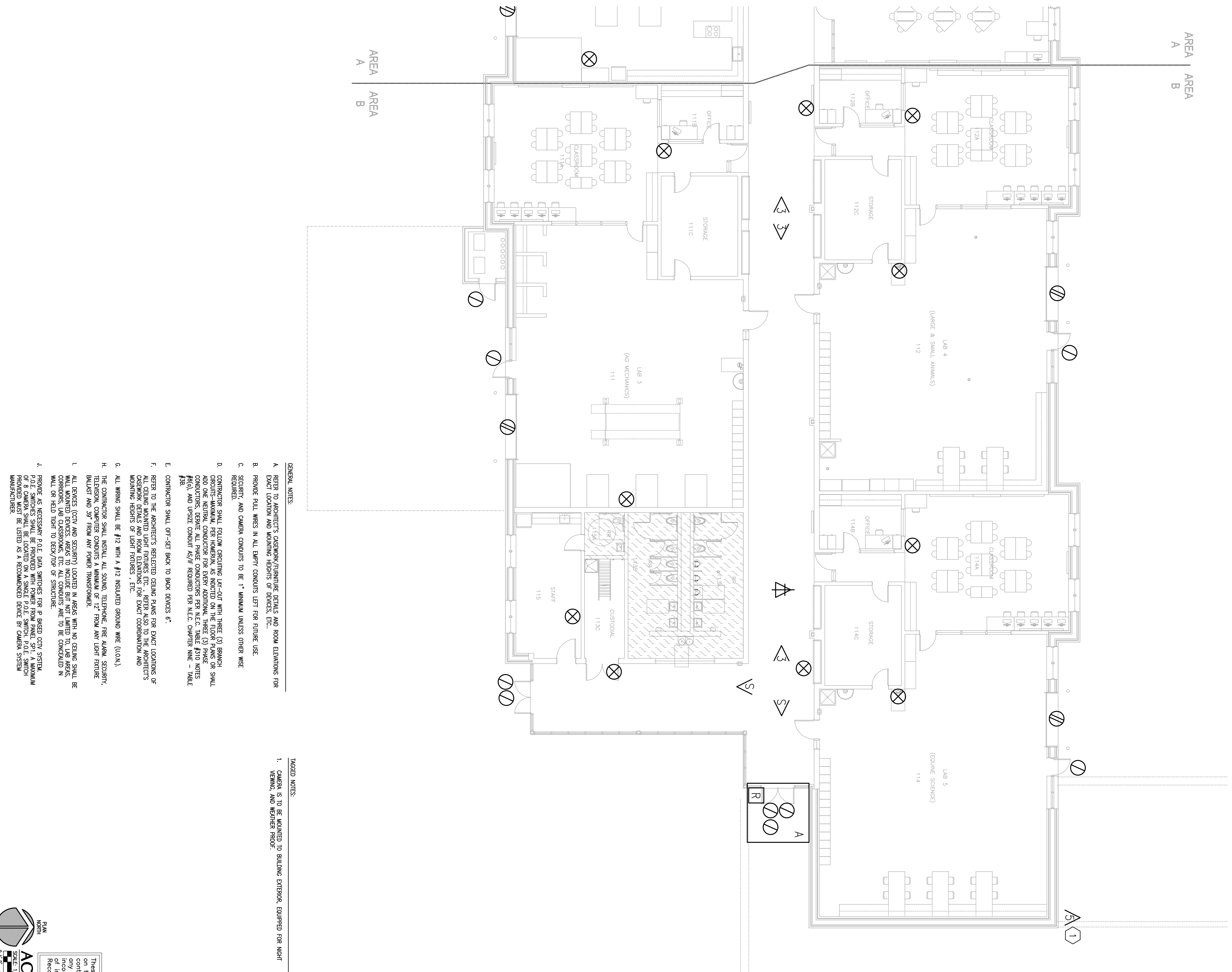
Proj. # 0901
Date: 5/24/2010
Drawn: IWF
Checked: IWF
Revised:

ACADEMIC BUILDING AREA "A" - SECURITY PLAN
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

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- GENERAL NOTES:**
- REFER TO ARCHITECT'S CASEWORK/FURNITURE DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - PROVIDE PULL WIRES IN ALL ENTRY CONDUITS LEFT FOR FUTURE USE.
 - SECURITY AND CAMERA CONDUITS TO BE 1" MINIMUM UNLESS OTHER WIRE REQUIRED.
 - CONTRACTOR SHALL FOLLOW CIRCUITING LAY-OUT WITH THREE (3) BRANCH CIRCUITS-MAXIMUM PER HOBBERIN, AS INDICATED ON THE FLOOR PLANS OR CONDUITING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND UPSEZ CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER NINE - TABLE #3B.
 - CONTRACTOR SHALL OFF-SET BACK TO BACK DEVICES 6".
 - REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (IGMW).
 - THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM SECURITY, BULLET AND 3FT FROM ANY POWER TRANSDUCER.
 - ALL DEVICES (CCTV AND SECURITY) LOCATED IN AREAS WITH NO CEILING SHALL BE CORRIDORS, LAB CLASSROOMS, ETC. ALL CONDUITS ARE TO BE CONCEALED IN WALL OR FIELD TIGHT TO BODY/TOP OF STRUCTURE.
 - PROVIDE AS NECESSARY P.O.E. DATA SWITCHES FOR P-BASED CCTV SYSTEM. P.O.E. SWITCHES SHALL BE PROVIDED WITH POWER FROM PANEL SPT 1. A MAXIMUM OF 8 CAMERAS SHALL BE LOCATED ON A SINGLE P.O.E. SWITCH FOR E. SWITCHES SHALL BE PROVIDED AS NECESSARY TO BE PROVIDED BY CAMERA SYSTEM MANUFACTURER.

- TASKED NOTES:**
- CAMERA IS TO BE MOUNTED TO BUILDING EXTERIOR, EQUIPPED FOR NIGHT VIEWING, AND WEATHER PROOF.

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ACADEMIC BUILDING AREA "B" - SECURITY PLAN

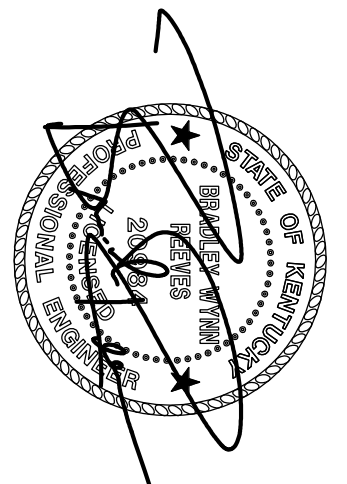
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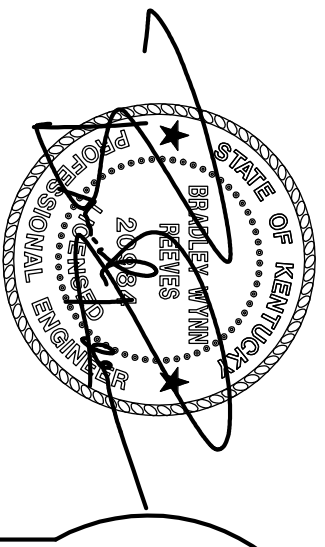
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ACADEMIC BUILDING AREA "B" - SECURITY PLAN
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
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FIRST FLOOR SECURITY PLAN
 SHOW ARENA AND CLASSROOM
 FAYETTE COUNTY PUBLIC SCHOOLS
 Locust Trace Equine AgriScience Farm
 3591 Leestown Road Lexington, KY 40511

Proj. # 0901
 Date: 5/24/2010
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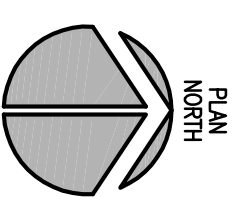
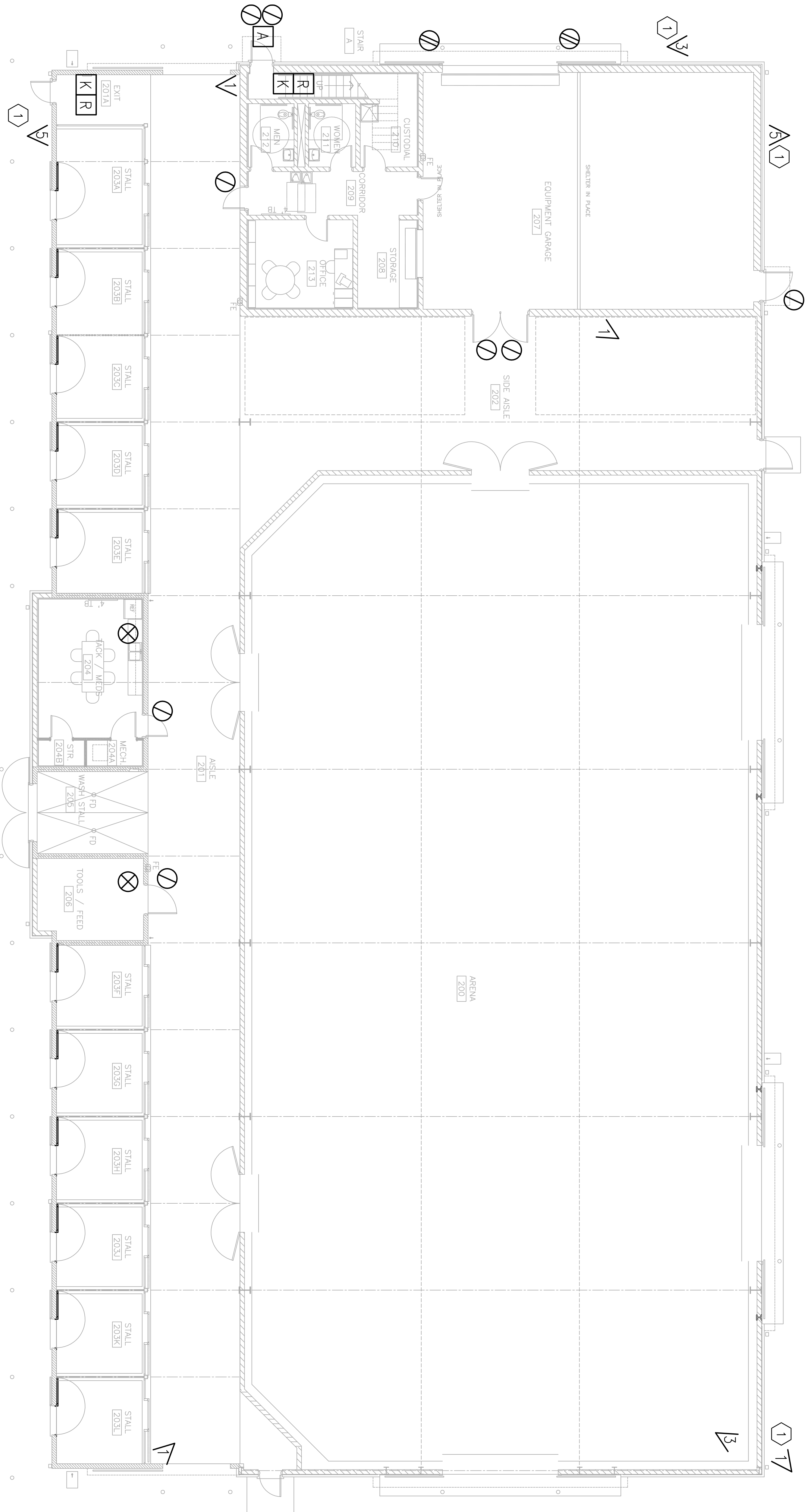
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GENERAL NOTES:

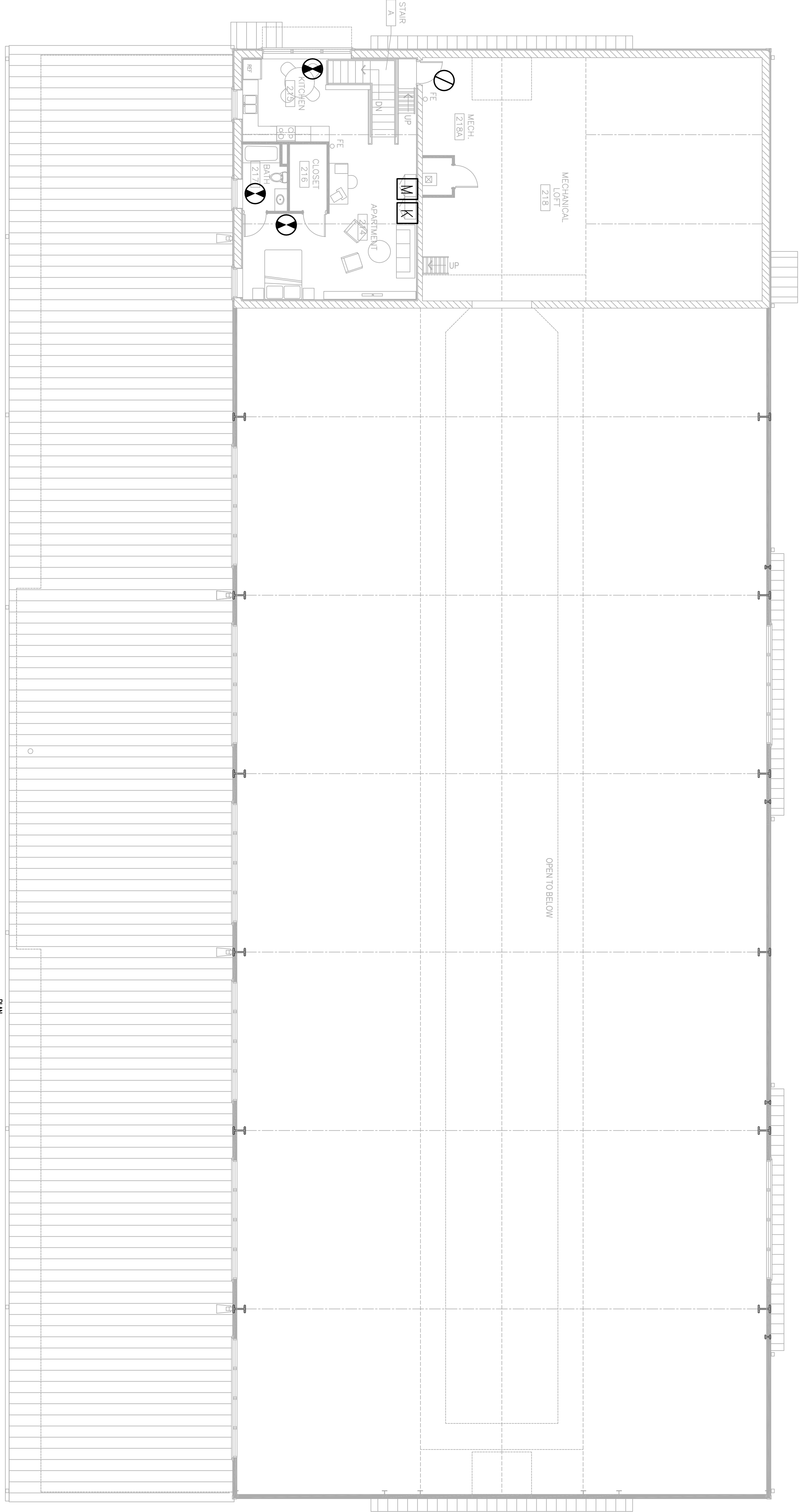
- A. REFER TO ARCHITECT'S DRAWING/FURNITURE DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC..
- B. PROVIDE PULL WIRES IN ALL EMPT CONDUITS LEFT FOR FUTURE USE.
- C. SECURITY AND CAMERA CONDUITS TO BE 1" MINIMUM UNLESS OTHER WISE REQUIRED.
- D. CONTRACTOR SHALL FOLLOW EXISTING LAY-OUT WITH THREE (3) BRANCH CIRCUITS-MAXIMUM PER HUB/BOX AS INDICATED ON THE FLOOR PLANS OR SHALL PROVIDE ONE NEUTRAL CONDUCTOR FOR EVERY ADDITIONAL THREE (3) PHASE CONDUITS. OBTAIN ALL PHASE CONDUITS PER M.E.C. TABLE #310 NOTES AND OBTAIN ALL PHASE CONDUITS PER M.E.C. CHAPTER ONE - TABLE #350.
- E. CONTRACTOR SHALL OFF-SET BACK TO BACK DEVICES 6".
- F. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES ETC. REFER ALSO TO THE ARCHITECT'S DRAWING DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
- G. ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.G.W.).
- H. THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM, SECURITY, TELEVISION, COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE BULB/ST AND 36" FROM ANY POWER TRANSFORMER.
- I. ALL DEVICES (CCTV AND SECURITY) LOCATED IN AREAS WITH NO CEILING SHALL BE WALL MOUNTED DEVICES AREAS TO INCLUDE BUT NOT LIMITED TO LAB AREAS, WALL OR HEAD UP/TO DECK/TOE OF STRUCTURE.
- J. PROVIDE AS NECESSARY P.O.E. AND SWITCHES FOR ALL DATA SYSTEMS. PROVIDE ALL SWITCHES BE LOCATED IN SWIMMING POOL AREA. PROVIDE MINIMUM OF 5 CAMERAS SHALL BE LOCATED ON A SINGLE P.O.E. SWITCH. P.O.E. SWITCH PROVIDED MUST BE LISTED AS A RECOMMENDED DEVICE BY CAMERA SYSTEM MANUFACTURER.

TAGGED NOTES:

1. CAMERA IS TO BE MOUNTED TO BUILDING EXTERIOR, EQUIPPED FOR NIGHT VIEWING, AND WEATHER PROOF.



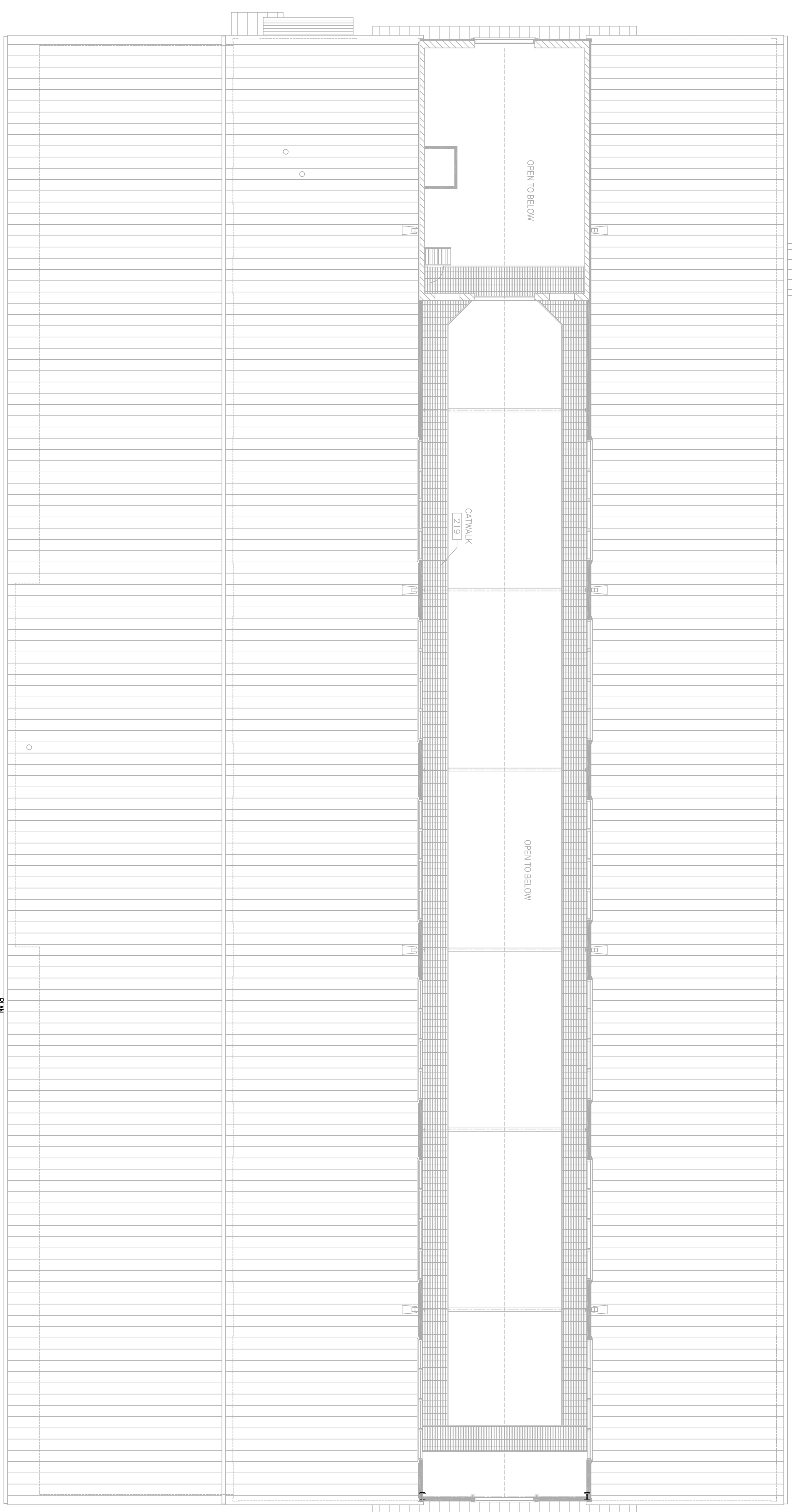
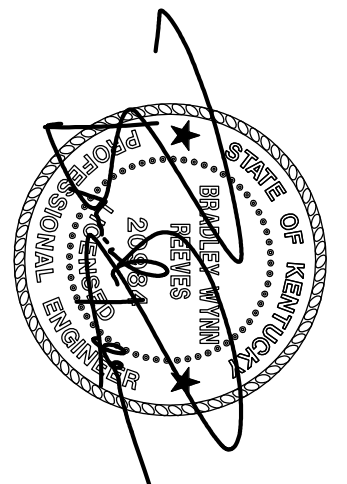
ARENA BUILDING FIRST FLOOR -- SECURITY PLAN



PLAN NORTH
 SCALE 1/8" = 1'-0"
 0 1' 2' 4' 8' 16' 24' 32'

ARENA - SECOND FLOOR SECURITY PLAN

- GENERAL NOTES:
- REFER TO ARCHITECT'S CROWN/FURNITURE DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - PROVIDE PULL WIRES IN ALL EMPTY CONDUITS LEFT FOR FUTURE USE.
 - SECURITY AND CAMERA CONDUITS TO BE 1" MINIMUM UNLESS OTHER WIRE REQUIRED.
 - CONTRACTOR SHALL FOLLOW EXISTING LAYOUT WITH THREE (3) BRANCH CONDUITS PER ROOM. CONTRACTOR SHALL PROVIDE ONE (1) BRANCH CONDUIT AND ONE NEUTRAL CONDUCTOR FOR EVERY ADDITIONAL THREE (3) PHASE CONDUCTORS. DERIVE ALL PHASE CONDUCTORS PER N.E.C. TABLE #310 NOTES #60, AND PHASE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER NINE - TABLE #350.
 - CONTRACTOR SHALL OFF-SET BACK TO BACK DEVICES 6".
 - REFER TO THE ARCHITECT'S SELECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES ETC. REFER ALSO TO THE ARCHITECT'S CROWN DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (LION).
 - THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM SECURITY, TELEVISION, COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE BALLAST AND 36" FROM ANY POWER TRANSFORMER.
 - ALL DEVICES (CCTV AND SECURITY) LOCATED IN AREAS WITH NO CEILING SHALL BE WALL MOUNTED. LAB CLASSROOMS, ETC. ALL CONDUITS ARE TO BE CONCEALED IN WALL OR FLOOR RIGHT TO DESIGN OR STRUCTURE.
 - PROVIDE AS NECESSARY P.O.E. DATA SWITCHES PER IP BASED CCTV SYSTEM. ALL SWITCHES SHALL BE INSTALLED IN A SINGLE P.O.E. SWITCH RACK. SWITCH OF 8 CAMERAS SHALL BE LOCATED ON A SINGLE P.O.E. SWITCH RACK. SWITCH PROVIDED MUST BE LISTED AS A RECOMMENDED DEVICE BY CAMERA SYSTEM MANUFACTURER.



PLAN NORTH
 SCALE 1/8" = 1'-0"
 0 1' 2' 4' 8' 16' 24' 32'

ARENA - THIRD FLOOR SECURITY PLAN

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E4.3B

Proj. # 0901
 Date: 5/24/2010
 Drawn: IWF
 Checked: IWF
 Revised:

SECOND/THIRD FLOOR SECURITY PLAN
 SHOW ARENA AND CLASSROOM

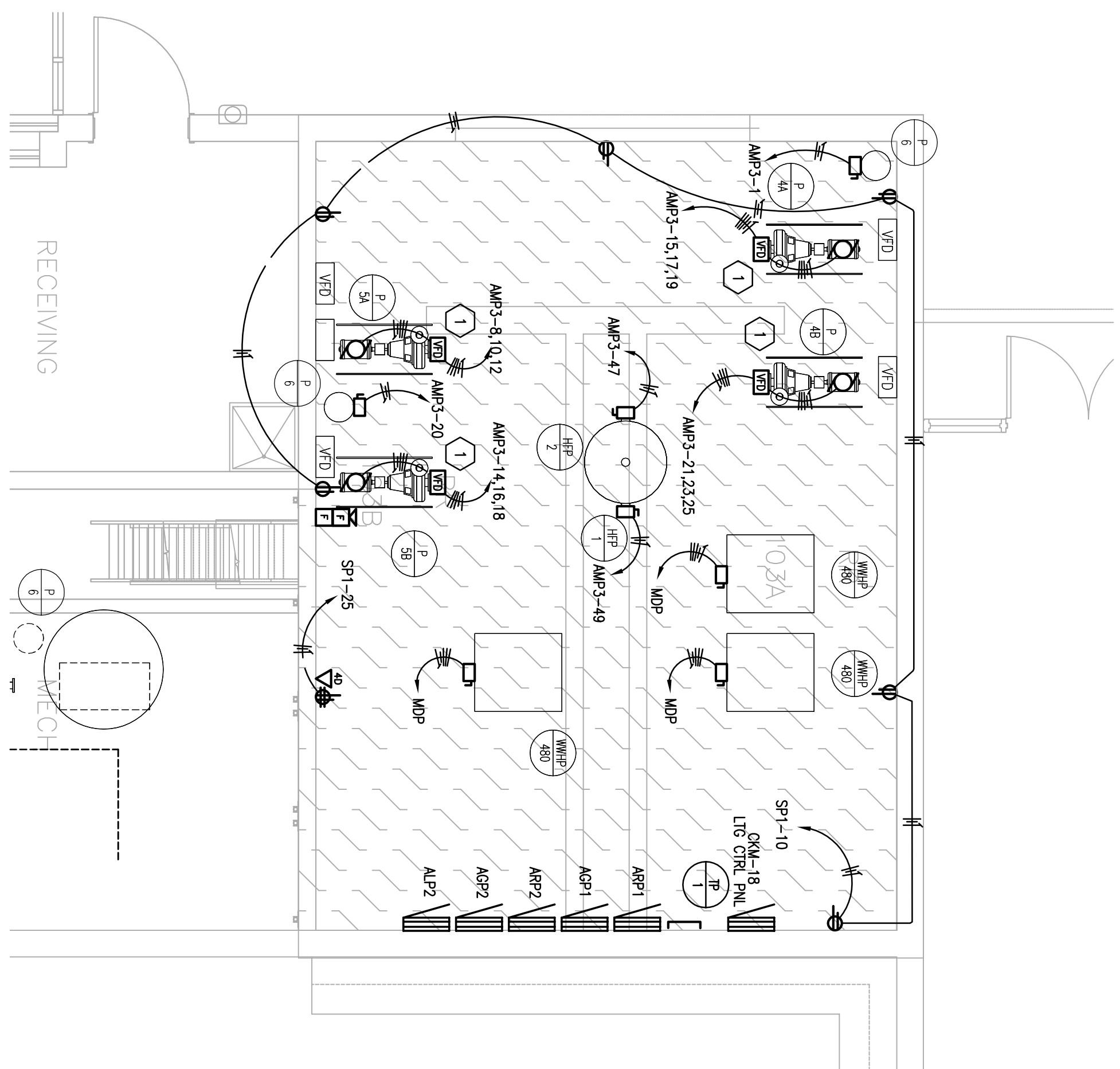
FAYETTE COUNTY PUBLIC SCHOOLS
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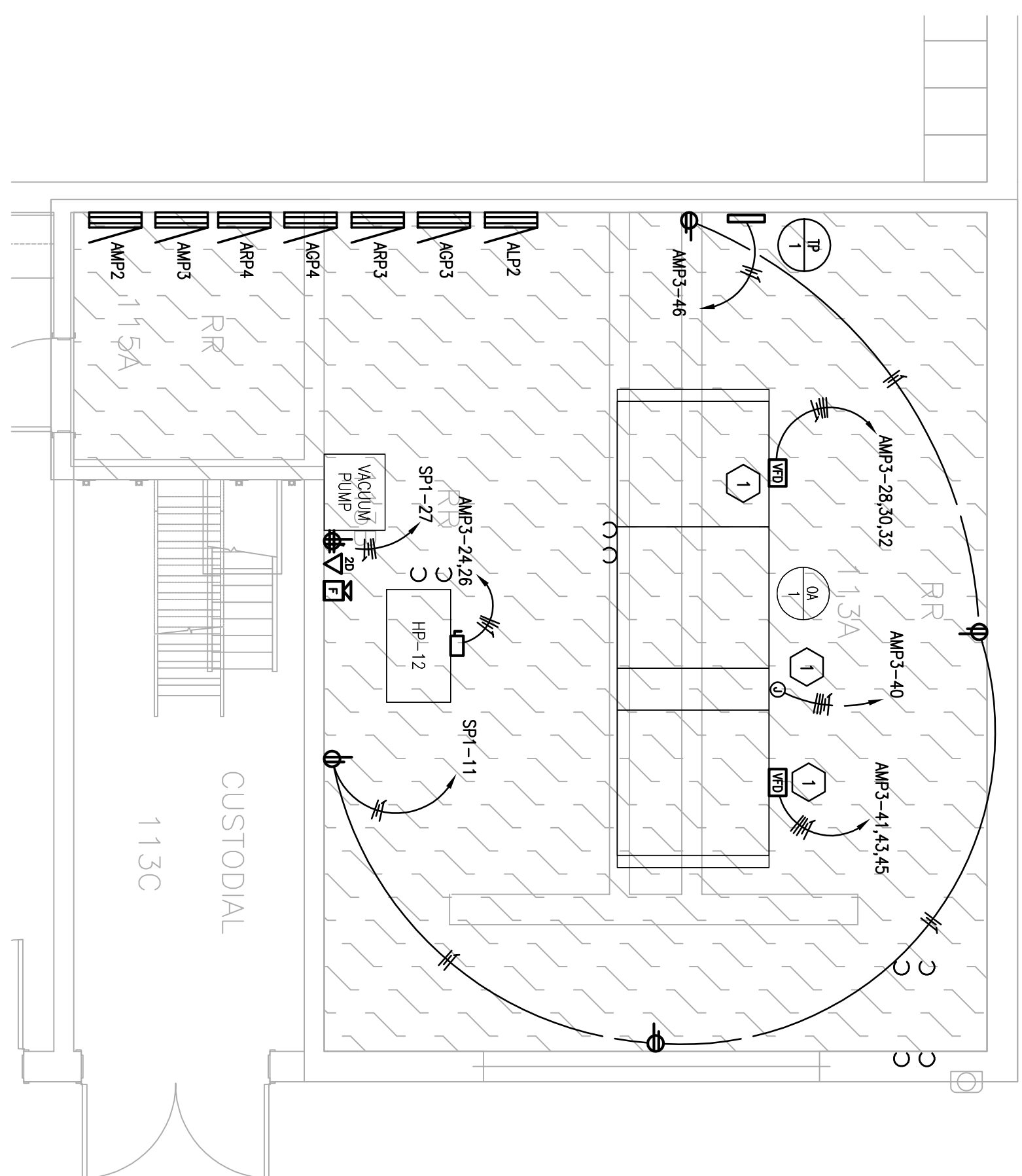
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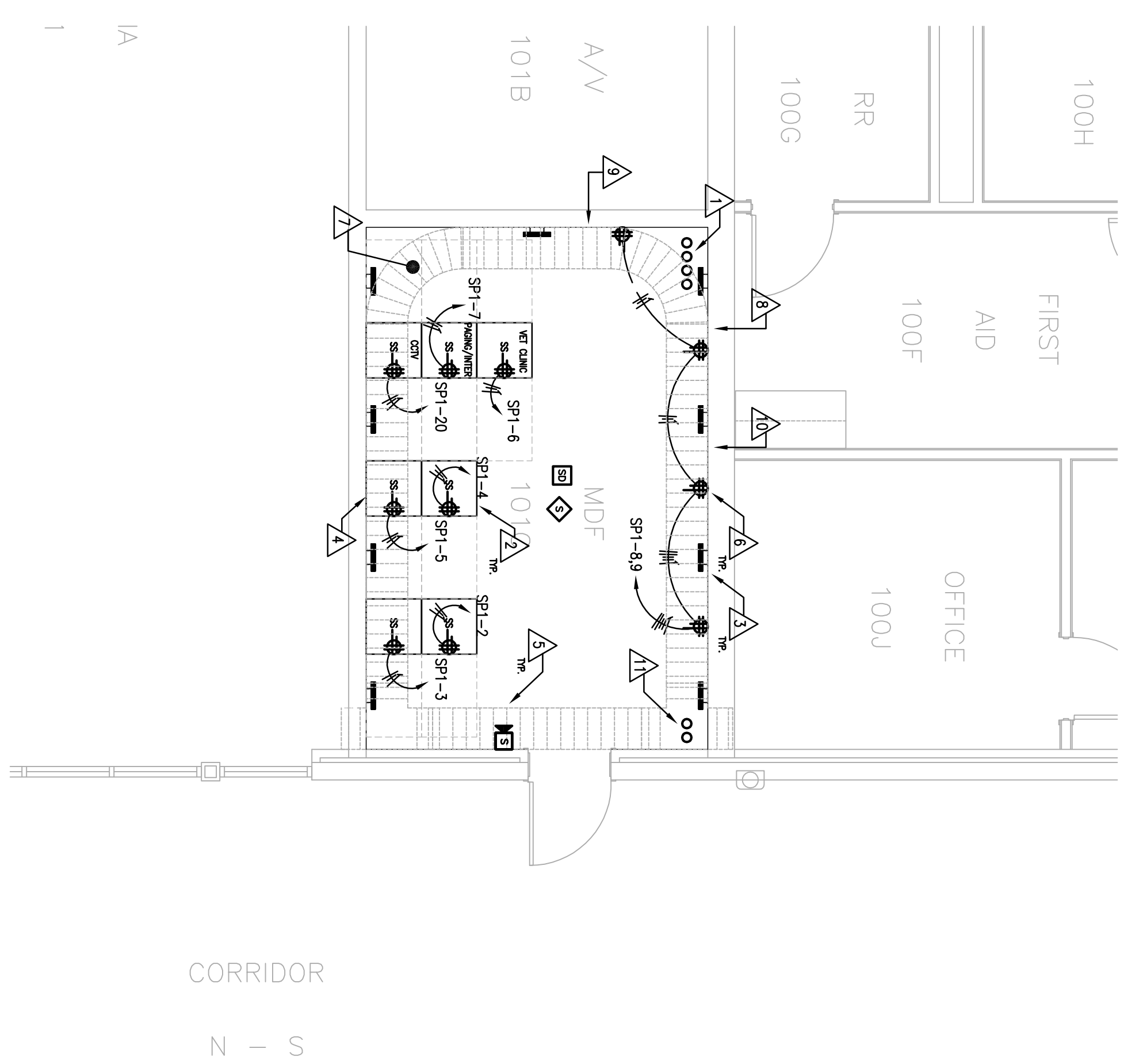
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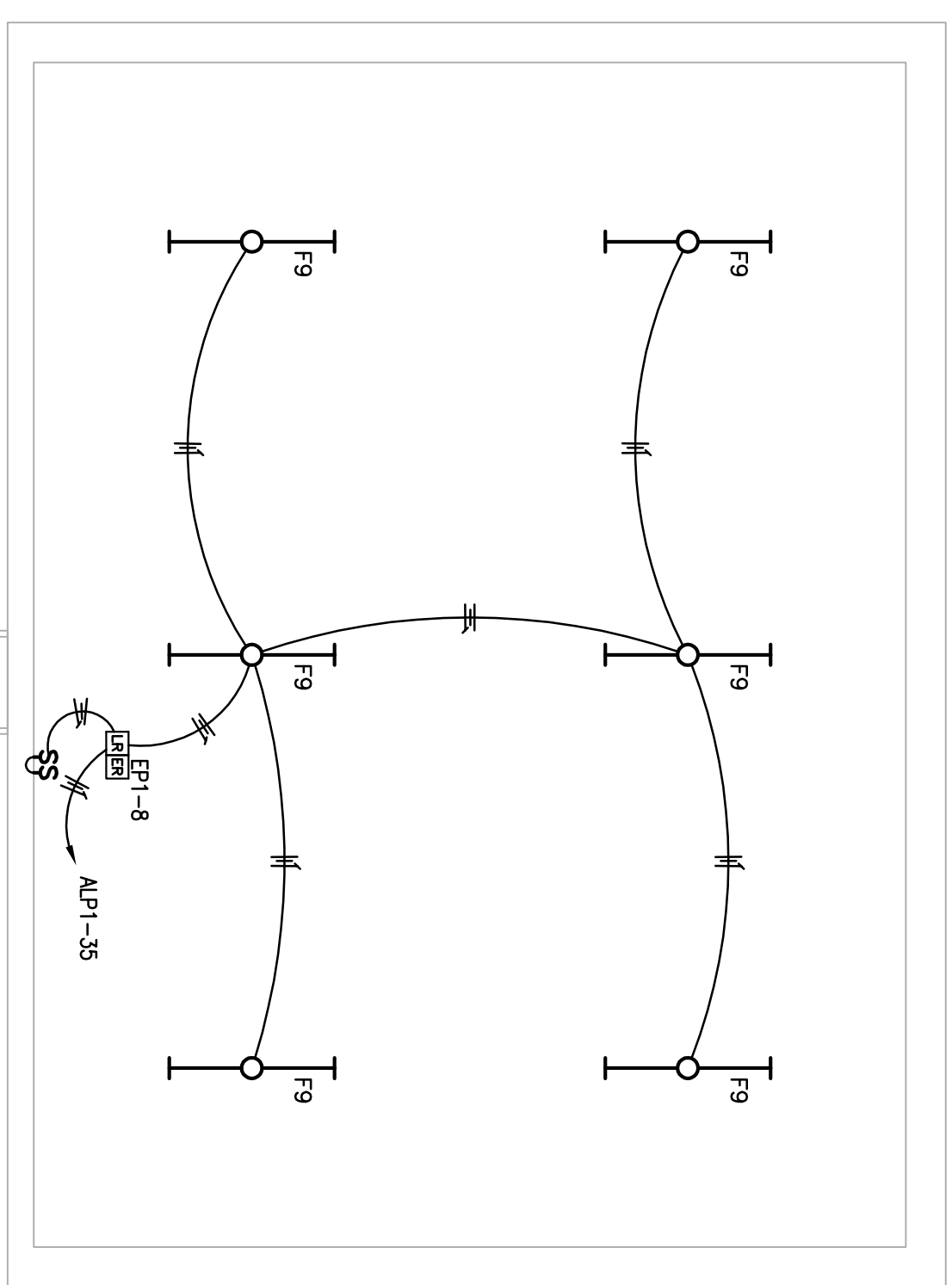
MECHANICAL PLATFORM AREA "A" - POWER/SYS
SCALE: 1/4" = 1'-0"
0 3" 6" 9" 12" 15" 18"



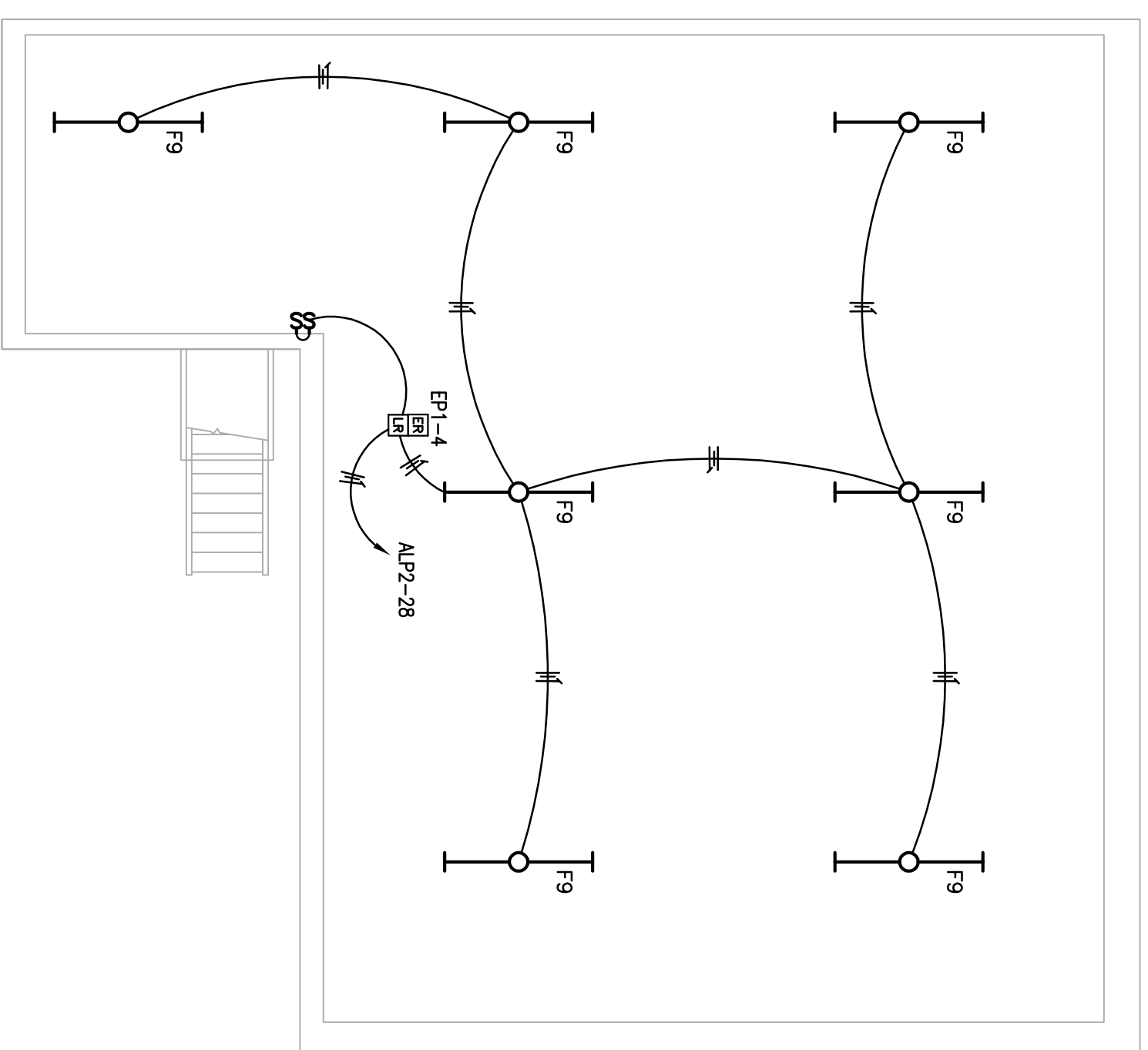
MECHANICAL PLATFORM AREA "B" - POWER/SYS
SCALE: 1/4" = 1'-0"
0 3" 6" 9" 12" 15" 18"



MDF ROOM AREA "A" - POWER/SYS
SCALE: 1/4" = 1'-0"
0 3" 6" 9" 12" 15" 18"



MECHANICAL PLATFORM AREA "A" - LIGHTING
SCALE: 1/4" = 1'-0"
0 3" 6" 9" 12" 15" 18"



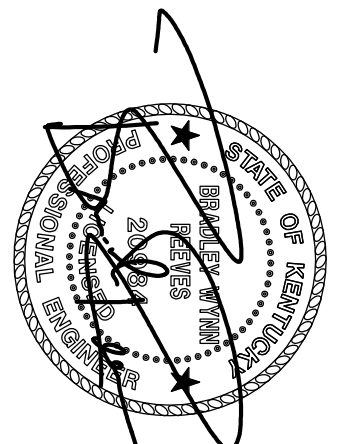
MECHANICAL PLATFORM AREA "B" - LIGHTING
SCALE: 1/4" = 1'-0"
0 3" 6" 9" 12" 15" 18"

- WDP/DFP TAGGED NOTES:
1. 4 - 4" USC COMMUNICATION CONDUITS SERVICE ENTRANCE
 2. DATA/VOICE BAYS, PATCH PANELS, WIRE MANAGEMENT, ETC. REFER TO DETAIL ELEVATION
 3. (TRP) 12" X 1/4" X 2" COPPER GROUND BAR ON STANDOFFS WITH #6 RUN BACK TO MAIN PANEL BUS W/UP
 4. LINE WALLS OF ROOM WITH 3/4" FIBER REINFORCED PLWOOD. WITH BOTTOM OF PANEL AT 6" AFF.
 5. 16" W X 4" D TRAY AROUND EXTERIOR PERIMETER OF ROOM AT 7'-3" AFF TO BOTTOM.
 6. (TRP) ALL OUTLETS IN WDP/DFP ROOM TO BE ANSI CATEGORY X. SHIELD SUPPRESSION THE-TYPICAL
 7. BOND CABLE TRAY TO GROUND BAR WITH #6 WIRE
 8. CAVY SERVICE DEMARCATION POINT
 9. TELEPHONE SERVICE DEMARCATION POINT
 10. SECURITY HANGUP LOCATION
 11. 2 - 4" USC COMMUNICATION CONDUITS TO AERON BUILDING

- GENERAL NOTES:
- A. REFER TO ARCHITECT'S CUSTOMER/FURNISHING DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - B. PROVIDE TULL WIRES IN ALL ENTRY CONDUITS LEFT FOR FUTURE USE
 - C. FIRE ALARM, SECURITY, AND SOUND CONDUITS TO BE 3/4" MINIMUM UNLESS OTHER WIRE REQUIRED.
 - D. CONTRACTOR SHALL FOLLOW CIRCUITING LAY-OUT WITH THREE (3) BRANCH CIRCUITS-MAXIMUM, PER HOMEKIT, AS INDICED ON THE FLOOR PLANS OR SHALL ADD ONE NEUTRAL CONDUCTOR PER BRANCH CIRCUIT. (SEE TABLE #310 NOTES #16G), AND USE SIZE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER 90E - TABLE #318.
 - E. CONTRACTOR SHALL OFF-SET BACK TO BACK OUTLETS 6"
 - F. ALL PANELBOARDS NOT LOCATED IN MECHANICAL ROOM SHALL BE PER ARCHITECT STANDARDS AND SPECIFICATIONS SURROUNDING WALL FINISH PAINT SHALL BE PER ARCHITECT STANDARDS AND SPECIFICATIONS.
 - G. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING LIGHT FIXTURES AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - H. ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.O.N.).
 - I. THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM, SECURITY, TELEVISION, COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE BULBSET AND 30" FROM ANY POWER TRANSFORMER.
 - J. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR STUDENT'S WORKSTATION AND INSTRUCTOR'S WORKSTATION WITH SUPPLIER AND FINAL WORKSTATION SHOP DRAWINGS PRIOR TO INSTALLATION AND WIRE CONDUIT.

- ELECTRICAL TAGGED NOTES:
1. VFD BY OTHERS. PROVIDE ELECTRICAL WIRING BETWEEN VFD AND MOTOR.

- GENERAL NOTES:
- A. REFER TO ARCHITECT'S CUSTOMER/FURNISHING DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - B. PROVIDE TULL WIRES IN ALL ENTRY CONDUITS LEFT FOR FUTURE USE
 - C. FIRE ALARM, SECURITY, AND SOUND CONDUITS TO BE 3/4" MINIMUM UNLESS OTHER WIRE REQUIRED.
 - D. CONTRACTOR SHALL FOLLOW CIRCUITING LAY-OUT WITH THREE (3) BRANCH CIRCUITS-MAXIMUM, PER HOMEKIT, AS INDICED ON THE FLOOR PLANS OR SHALL ADD ONE NEUTRAL CONDUCTOR PER BRANCH CIRCUIT. (SEE TABLE #310 NOTES #16G), AND USE SIZE CONDUIT AS/IF REQUIRED PER N.E.C. CHAPTER 90E - TABLE #318.
 - E. CONTRACTOR SHALL OFF-SET BACK TO BACK OUTLETS 6"
 - F. ALL PANELBOARDS NOT LOCATED IN MECHANICAL ROOM SHALL BE PER ARCHITECT STANDARDS AND SPECIFICATIONS SURROUNDING WALL FINISH PAINT SHALL BE PER ARCHITECT STANDARDS AND SPECIFICATIONS.
 - G. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING LIGHT FIXTURES AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - H. ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.O.N.).
 - I. THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM, SECURITY, TELEVISION, COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE BULBSET AND 30" FROM ANY POWER TRANSFORMER.
 - J. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR STUDENT'S WORKSTATION AND INSTRUCTOR'S WORKSTATION WITH SUPPLIER AND FINAL WORKSTATION SHOP DRAWINGS PRIOR TO INSTALLATION AND WIRE CONDUIT.



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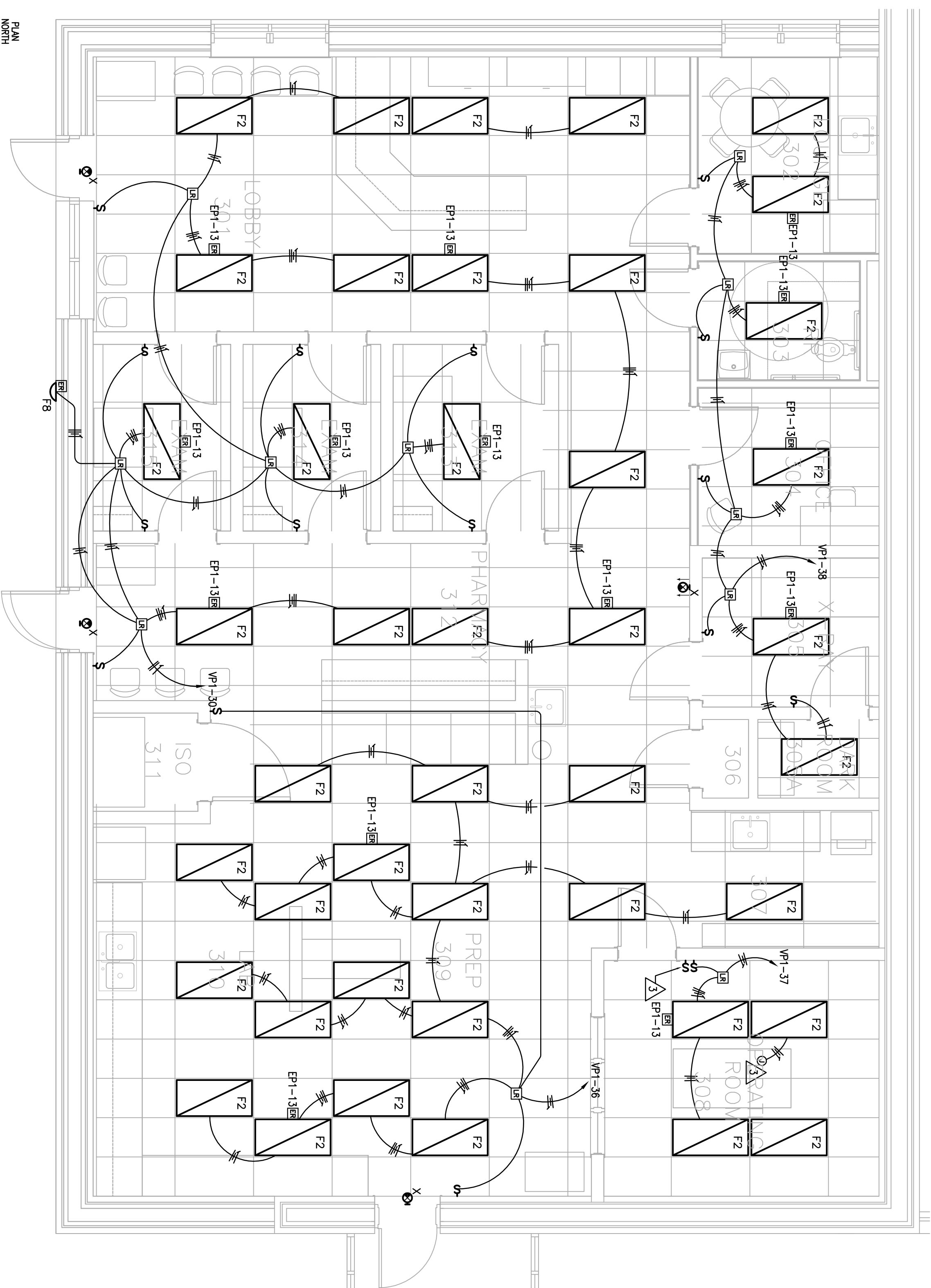
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ACADEMIC BUILDING ENLARGED AREAS
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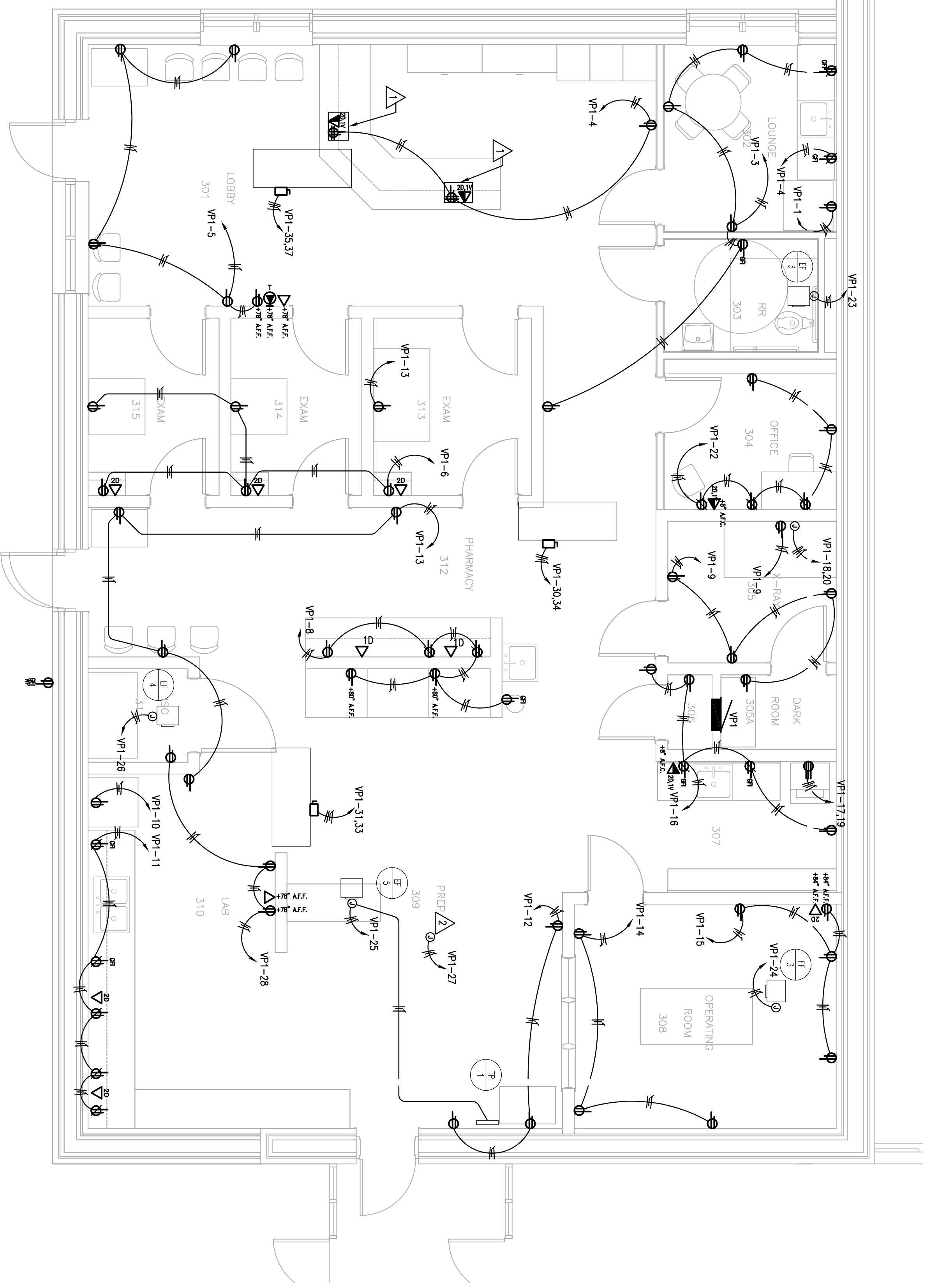
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Date: 5/24/2010
Drawn: IWF
Checked: IWF
Revised:

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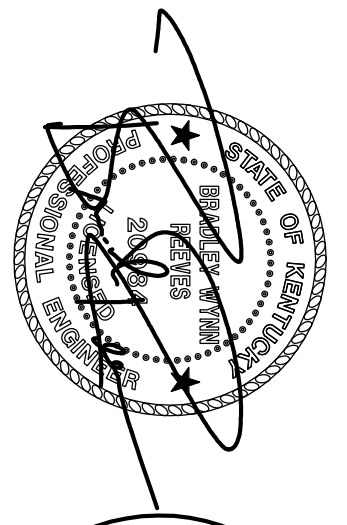
VET AREA - LIGHTING
 SCALE: 1/8" = 1'-0"
 0 3 6 9 12 15 18'



VET AREA - POWER/SYS
 SCALE: 1/8" = 1'-0"
 0 3 6 9 12 15 18'

- GENERAL NOTES:**
- REFER TO ARCHITECT'S GENERAL/GENERAL NOTES AND ROOM ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - PROVIDE PULL WIRES IN ALL EMPTY CONDUITS LEFT FOR FUTURE USE.
 - FIRE ALARM, SECURITY, AND SOUND CONDUITS TO BE 3/4" MINIMUM UNLESS OTHERWISE SPECIFIED.
 - CONTRACTOR SHALL FOLLOW CIRCUITING LAY-OUT WITH THREE (3) BRANCH CIRCUITS-MAXIMUM PER HOOKUP, AS NOTICED ON THE FLOOR PLANS OR SHALL AND ONE NEUTRAL CONDUCTOR PER BRANCH CIRCUIT. PROVIDE ALL BRANCH CONDUCTORS PER N.E.C. REQUIREMENTS FOR EACH BRANCH CIRCUIT AND WIRING METHODS PER N.E.C. CHAPTER 90. UNLESS OTHERWISE SPECIFIED.
 - CONTRACTOR SHALL GFT-SET BACK TO BACK OUTLETS 6".
 - ALL PANELBOARDS NOT LOCATED IN MECHANICAL ROOM SHALL BE PER ARCHITECT STANDARDS AND TO MATCH THE SURROUNDING WALL FINISH. PAINT SHALL BE PER ARCHITECT STANDARDS AND SPECIFICATIONS.
 - REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING LIGHTS. PROVIDE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL CEILING LIGHTS PER EACH BRANCH CIRCUIT AND WIRING METHODS PER N.E.C. CHAPTER 90. UNLESS OTHERWISE SPECIFIED.
 - ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (U.O.N.).
 - THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM, SECURITY, TELEVISION, COMPUTER CONDUITS A MINIMUM OF 12" FROM ANY LIGHT FIXTURE BALLAST AND 3" FROM ANY POWER TRANSFORMER.
 - CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR STUDENT'S WORKSTATION AND INSTRUCTOR'S WORKSTATION WITH SUPPLIER AND FINAL WORKSTATION SHOP DRAWINGS PRIOR TO INSTALLATION AND WIRE COMPLETE.

- VET AREA TAGGED NOTES:**
- PROVIDE RECYCLED FLOOR BOX WITH FLOOR WATER, INSERT DIMENSIONED FROM ARCHITECTURAL PLANS AND COORDINATED WITH THE FINAL DESIGNER LOCATION.
 - PROVIDE CONNECTION TO PLUMB USED FOR ANESTHESIA GAS REMOVAL, COORDINATE WITH PLUMBING CONTRACTOR. PROVIDE SWITCH LOCATED NEAR ROOM ENTRY.
 - PROVIDE JUNCTION BOX FOR SURGEON ROOM LIGHT TO BE INSTALLED NEAR ROOM ENTRY. PROVIDE NECESSARY WIRING FOR OVERHEAD LIGHT TO BE SWITCHED INDEPENDENTLY OF FLUORESCENTS.



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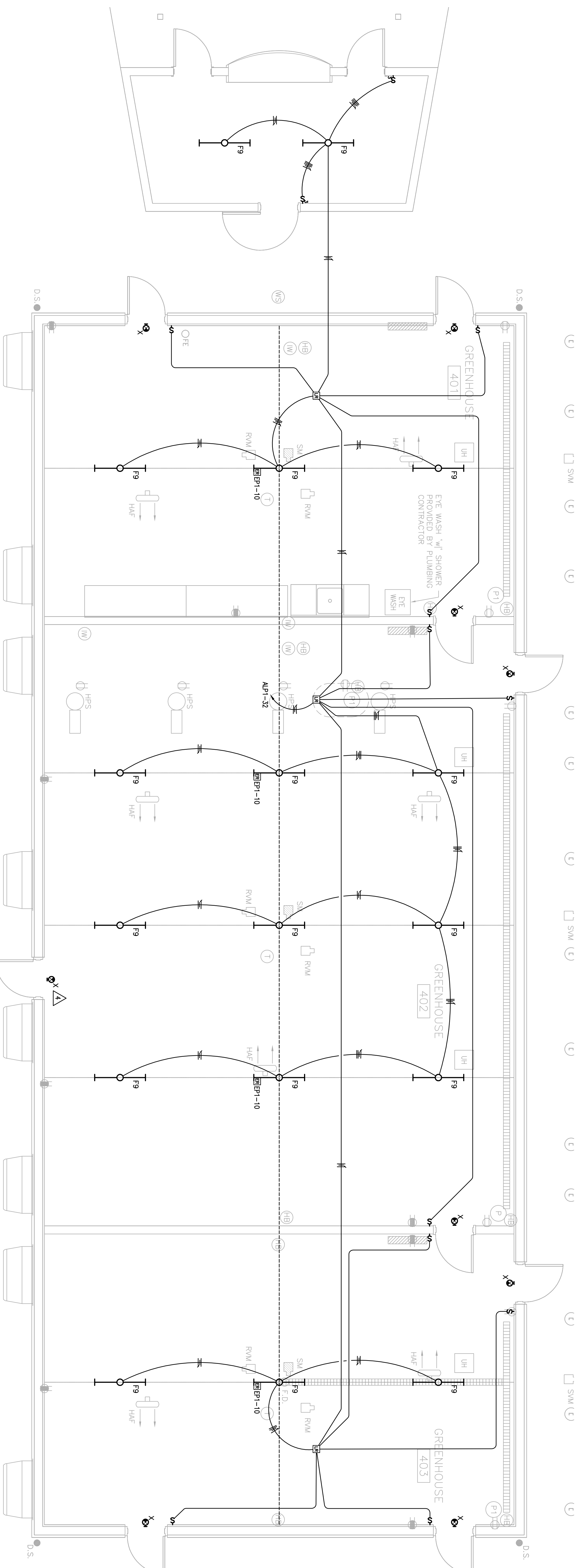
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ACADEMIC BUILDING VET AREA
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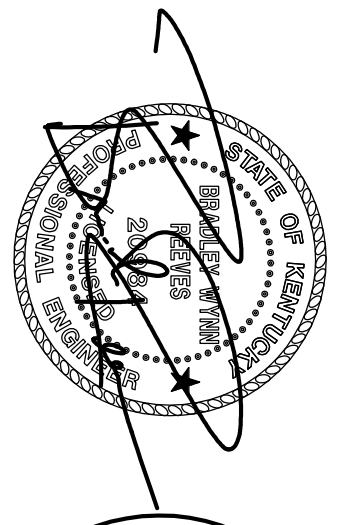
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 Date: 5/24/2010
 Drawn: IWF
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 Revised:

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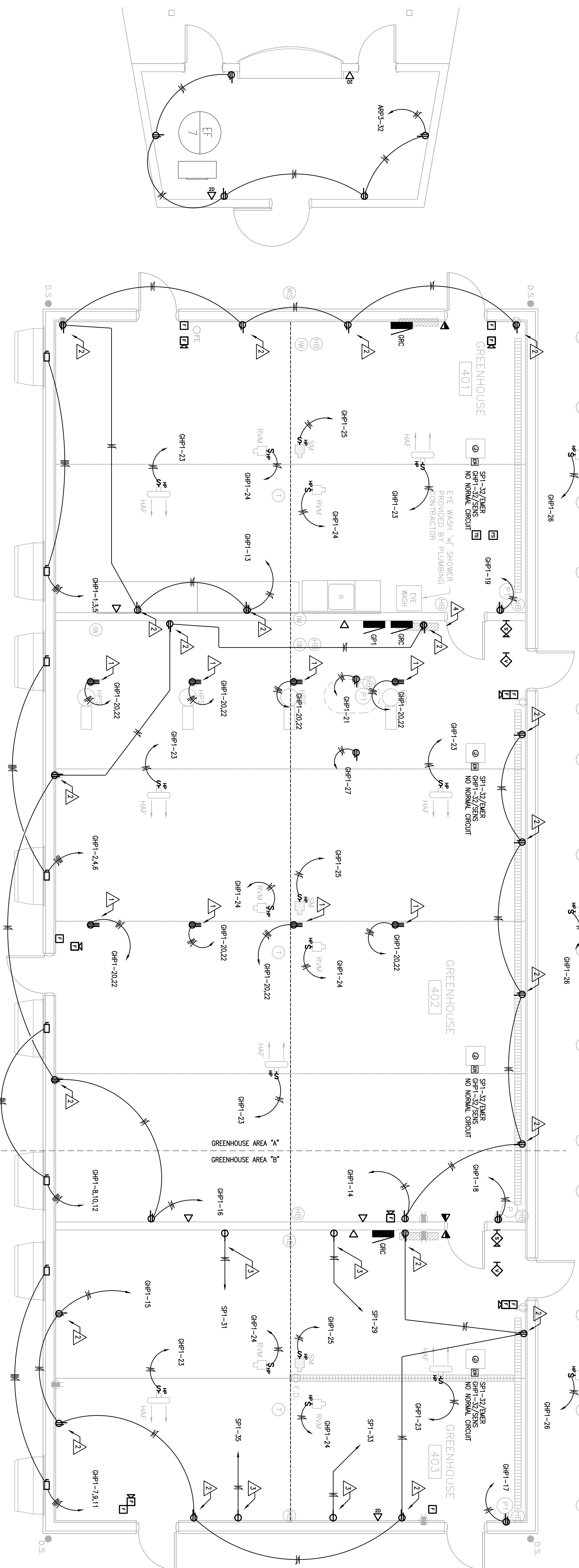
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- GENERAL GREENHOUSE NOTES:**
- A. REFER TO GREENHOUSE DESIGN SHEETS GHG-GRK-4 FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES, ETC.
 - B. PROVIDE FILL WIRES IN ALL EMPTY CONDUITS LEFT FOR FUTURE USE.
 - C. FIVE ALARM SECURITY, AND SOUND CONDUITS TO BE 3/4" MINIMUM UNLESS OTHER WIRE REQUIRED.
 - D. CONTRACTOR SHALL FOLLOW EXISTING JAC-UT WITH THREE (3) BRANCH CIRCUITS-MAXIMUM PER HOODLINE, AS NOTED ON THE FLOOR PLANS OR SHALL AND ONE CENTRAL CONDUCTOR FOR EVERY ADDITIONAL THREE (3) PHASE CONDUCTORS. IDENTIFY ALL PHASE CONDUCTORS PER I.E.C. TABLE 310.104 (A) AND IDENTIFY CONDUIT AS/IF REQUIRED PER I.E.C. TABLE 310.104 (B).
 - E. CONTRACTOR SHALL OFF-SET BACK TO BACK OUTLETS 6".
 - F. ALL PANELBOARDS SHALL BE PREPARED, FRAMED AND PAINTED TO MATCH THE SURROUNDING WALL FINISH. PAINT SHALL BE PER ARCHITECT STANDARDS AND SPECIFICATIONS.
 - G. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES, ETC. REFER ALSO TO THE ARCHITECT'S WORKMAN DETAILS AND ROOM ELEVATIONS FOR EXACT COORDINATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES, ETC.
 - H. ALL WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.O.G.).
 - I. THE CONTRACTOR SHALL INSTALL ALL SOUND, TELEPHONE, FIRE ALARM, SECURITY, TELEVISION, INTERCOM, AND VIDEO EQUIPMENT. ALL ELECTRICAL EQUIPMENT SHALL BE GREENHOUSE EQUIPMENT WITH POWER TRANSFORMER.
 - J. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR GREENHOUSE EQUIPMENT WITH SUPPLIER AND FINAL WORKSTATION SHOP DRAWINGS PRIOR TO INSTALLATION AND WIRE COMPLETE.
 - K. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRE RAYS AND WIRING IN GREENHOUSE. LOCAL ON SHEETS GHG-GRK-4, REFER TO GHG-GRK-4 SHEETS FOR ROOMS OF CIRCULATING THROUGH CONTROL, REAR CABINETS, AND FOR ADDITIONAL WIRING TO LOW VOLTAGE SENSORS AND CONTROLS.
 - L. ALL VOICE/DATA OUTLETS SHALL BE PROVIDED WITH A WEATHER TIGHT SPRING-LOADED COVER WITH WATER TIGHT GASKET.
 - M. ALL VOICE/DATA CONDUITS SHALL BE ROUTED UNDESEAD TO 4" CONDUIT LOCATION IN GREENHOUSE AND WILL UTILIZE 4" CONDUIT TO ROUTE TO MECHANICAL ROOM IN ADJACENT BUILDING, WHEN ROUTED FROM MECHANICAL ROOM 4" CONDUIT TO HUR ROOM CABLES SHALL BE ROUTED IN CONDUIT TO NEAREST CABLE TRAY LOCATION.
 - N. PROVIDE WEATHER PROOF EXTERIOR BUBBLE COVERS FOR ALL ELECTRICAL RECEPTACLES.
 - O. PROVIDE ELECTRICAL WIRING BETWEEN GREENHOUSE EXHAUST FAN UNITS AND VFD CONTROLLERS.
- GREENHOUSE AREA TAGGED NOTES:**
- 1. MOUNT RECEPTACLE HIGH IN STRUCTURE. REFER TO GH-1 FOR EXACT LOCATION.
 - 2. CIRCUIT DIRECTLY TO GFI PANEL. DEVICE IS NOT TO BE CONTROLLED THROUGH GFCI PANEL.
 - 3. PROVIDE ELECTRICAL CONNECTION FOR OWNER PROVIDED AQUACULTURE TANK HEATERS. CONSULT ELECTRICAL CONTRACTOR FOR SIZE AND PHAS CONFIGURATION WITH TANK REQUIREMENTS PRIOR TO INSTALLATION.
 - 4. PROVIDE 2-4" CONDUITS FOR SYSTEM CONNECTIONS. REFER TO SITE FOR CONDUIT ROUTING. PROVIDE 2-2" CONDUITS TO LAB 1 OFFICE STUBBED "UP" IN WALL. TERMINATE 2" CONDUITS IN AN OVERSIZED DEVICE BOX WITH A DOUBLE GANG EXTENSION RING.



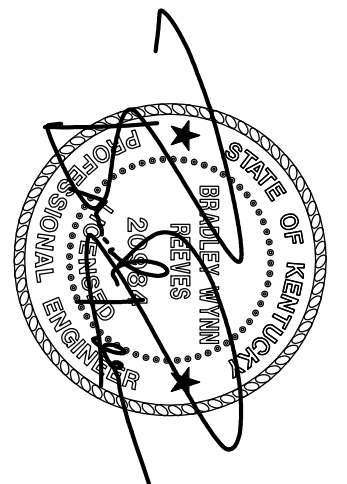
GREENHOUSE AREA - LIGHTING
SCALE: 1/8" = 1'-0"
0 3 6 9 12 15 18



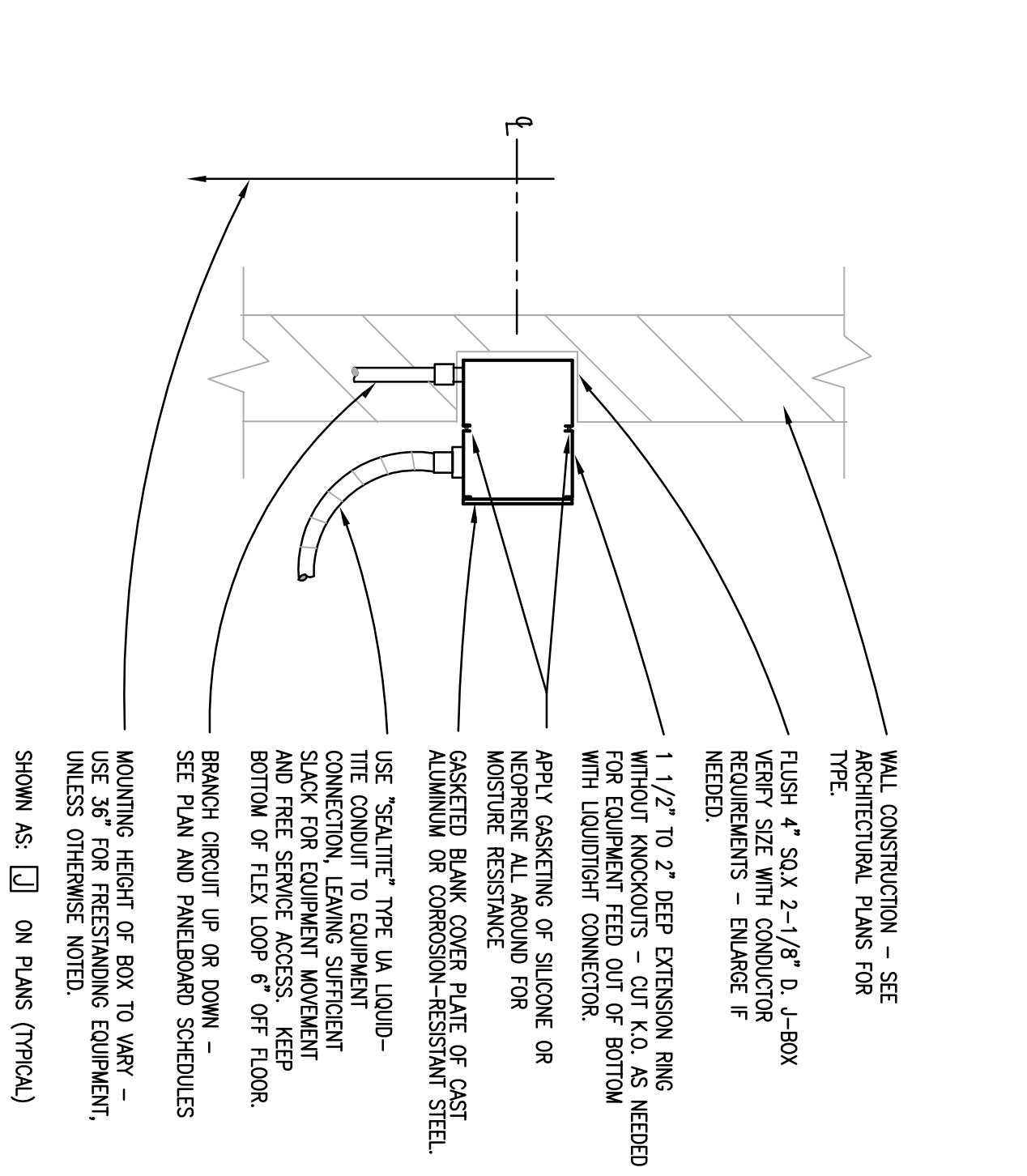
GREENHOUSE AREA - POWER/SYS
SCALE: 1/8" = 1'-0"
0 3 6 9 12 15 18

- REFER TO DRAWINGS ES.2**
- A. FOR CLARIFICATION, ALL ELECTRICAL CONDUIT MUST BE COMPRESSION TYPE CONNECTIONS.
 - B. REFER TO LIGHTING; PROVIDE F13 LIGHTING FIXTURES IN LED OF F9 FIXTURES EXCEPT WHERE SHOWN.
 - C. LOCATED AT EACH ENTRANCE (TYPICAL OF 3), AND CORNER MOUNTED OCCUPANCY SENSORS IN LED OF LINE VOLTAGE SENSORS SHOWN.
 - D. REFER TO GREENHOUSE 401, 402, AND 403.
 - i. PROVIDE MOUNTED OCCUPANCY SENSORS TIED TO LIGHTING CONTROL RELAY IN AREAS 401 AND 402.
 - ii. PROVIDE 4 FUTURE MOUNTED OCCUPANCY SENSORS TIED TO LIGHTING CONTROL RELAY IN AREA 402.
 - iii. REFER TO GREENHOUSE AREA POWER/SYSTEM STORE AREA.
 - iv. REFER TO CIRCUIT APP-32; CIRCUIT SHALL BE ROUTED THROUGH GREEN PANEL 4023.
 - v. PROVIDE REDUNDANT 20 AMP SPINNE EAST WALL ADJACENT TO DATA OUTLET CIRCUIT TO APP-19 (Labeled STORE COOLER).
 - vi. PROVIDE ELECTRICAL CONNECTION FOR E-7; REFER TO WADA FOR LOCATION. CIRCUIT TO APP-25 (Labeled STORE EXHAUST).
 - E. REFER TO GREENHOUSE AREA POWER/SYSTEM GREENHOUSE.
 - F. REFER TO GREENHOUSE ELECTRICAL PANEL AS GH-1 IN LED OF GH AS SHOWN.
- REFER TO THE REMAINS ES.2**
- A. FOR CLARIFICATION, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRING WHICH INCLUDES ALL WIRING AND CONDUIT INCLUDING BUT NOT LIMITED TO CONTROL WIRING AND POWER FEEDS. REFER TO SHEETS GHG-GRK-4.

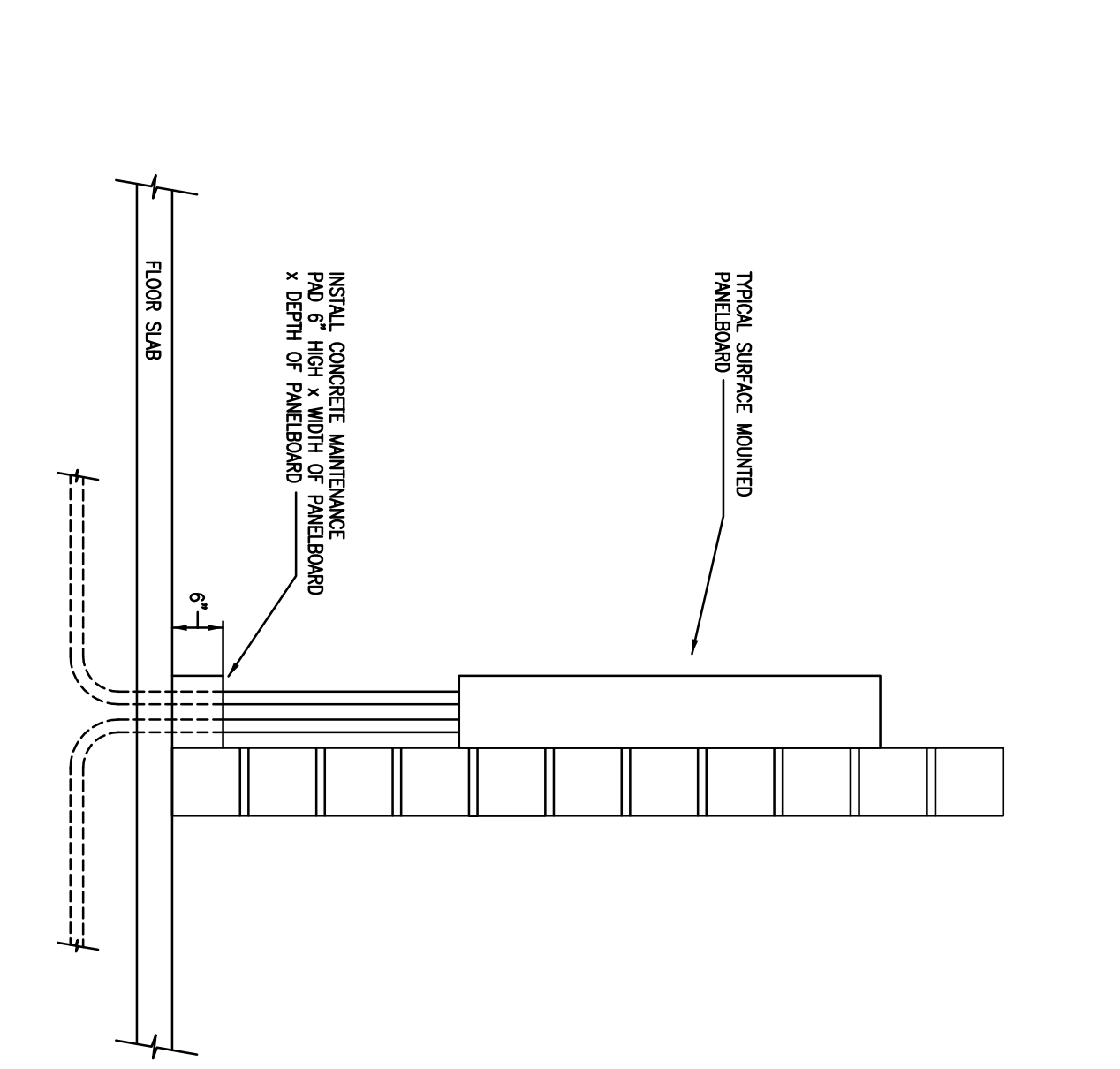
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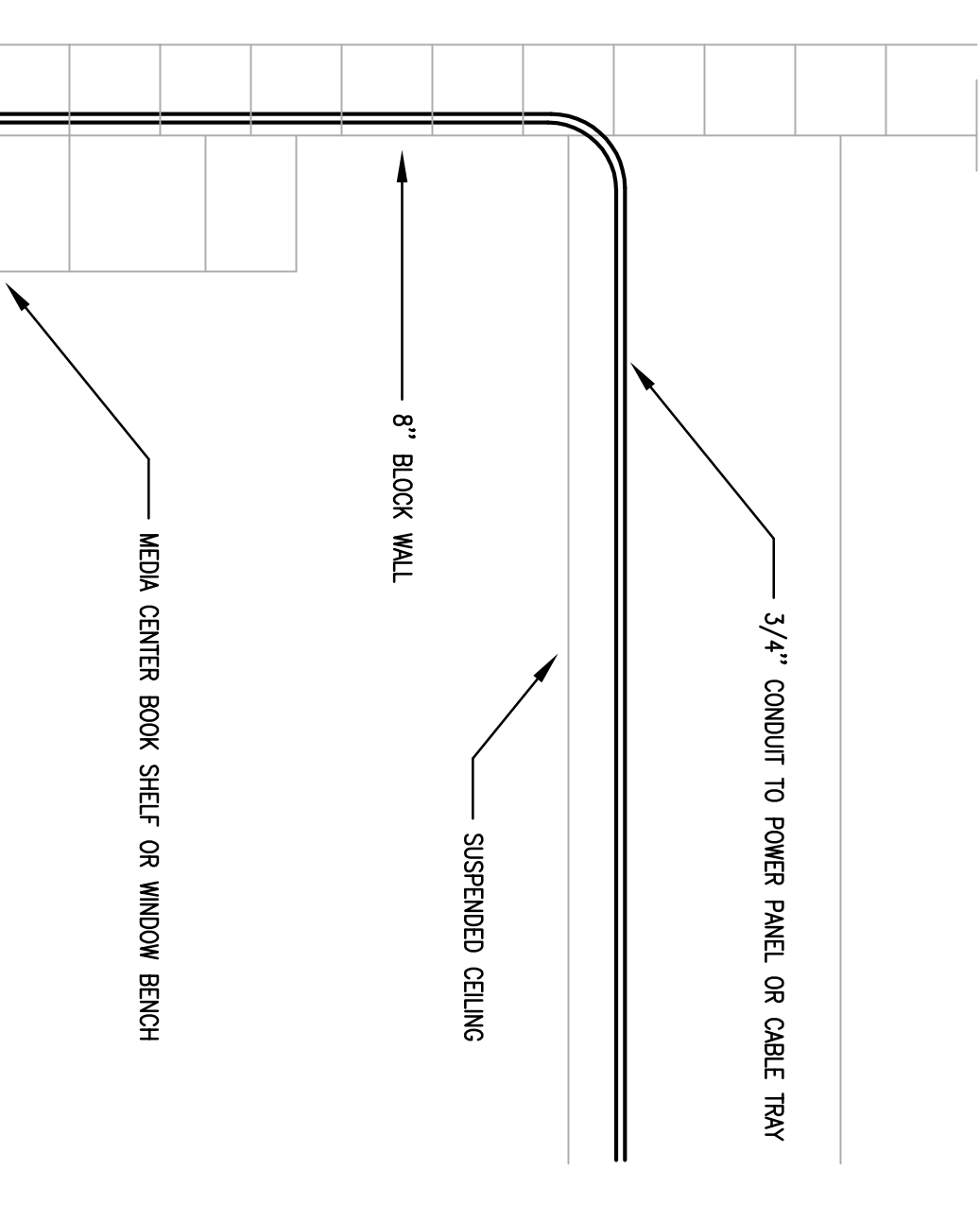
ALL DETAILS SHOWN ON THIS SHEET WITH FIRST WORD INDICATING "TYPICAL" APPLY TO ALL APPLICABLE INSTALLATIONS THROUGHOUT.



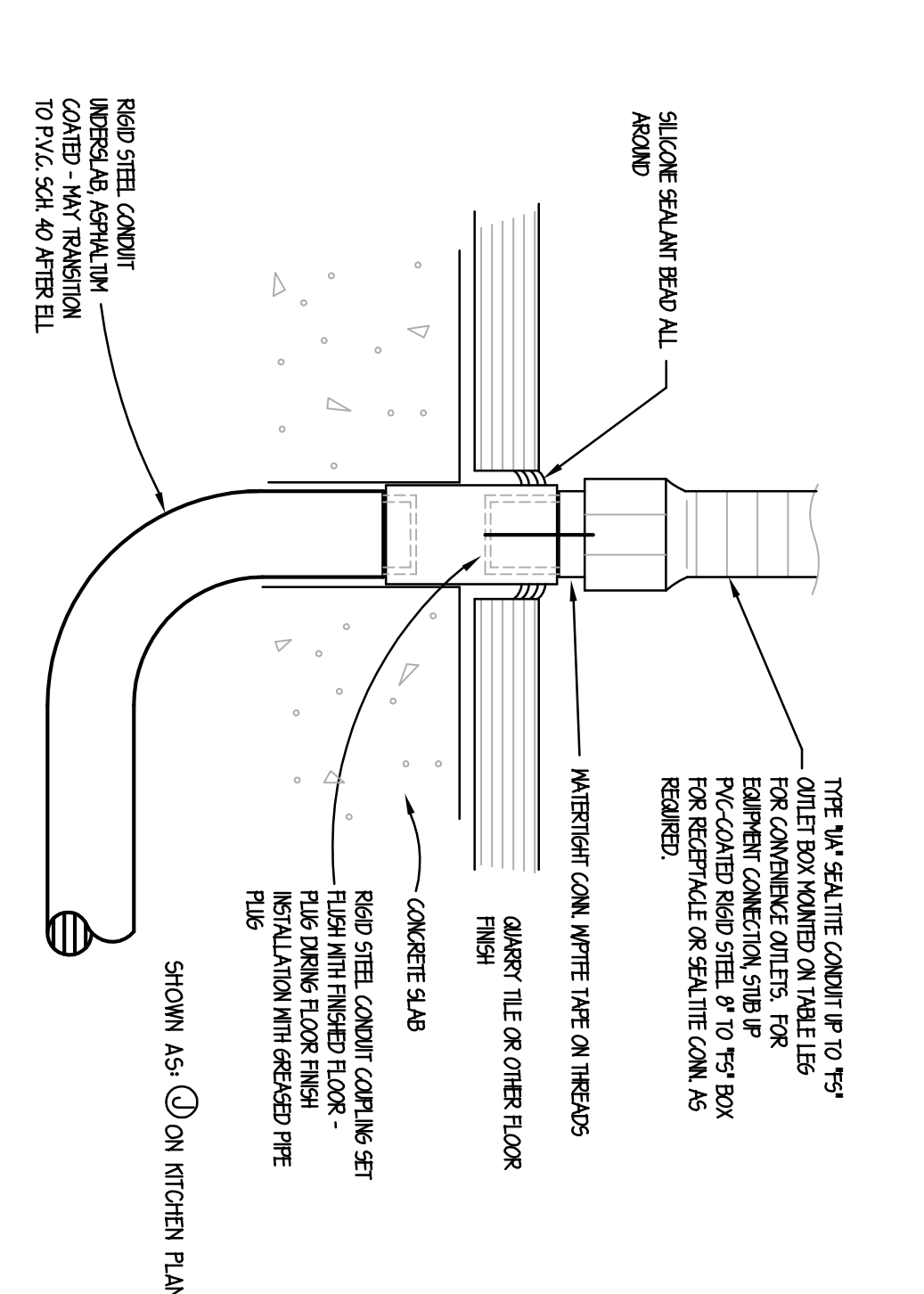
DETAIL OF TYPICAL HARD-WIRED CONNECTION
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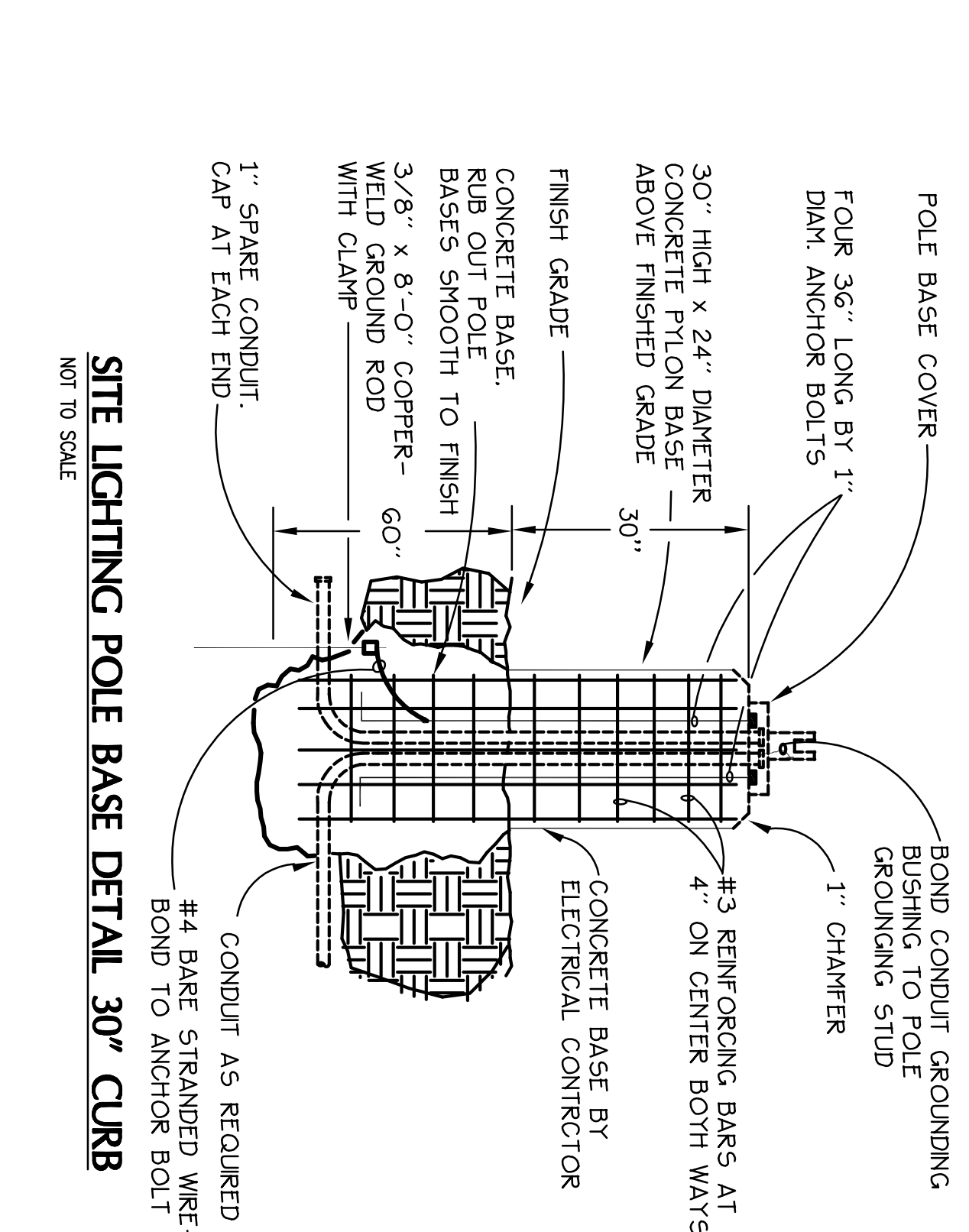
SURFACE PANELBOARD/CONDUIT MAINTENANCE PAD DETAIL
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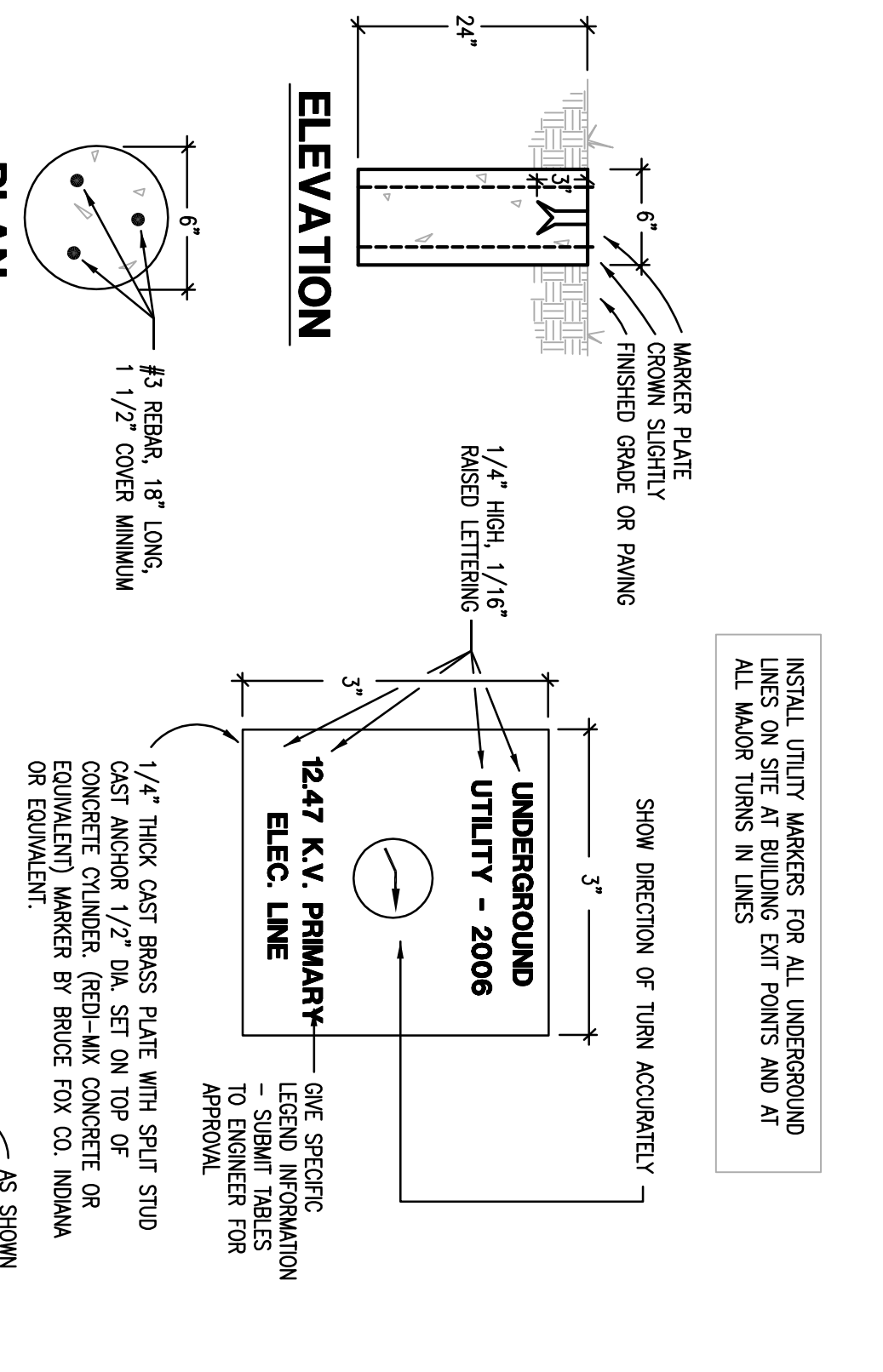
BOOK SHELF/BENCH BASE DEVICE DETAIL
NOT TO SCALE



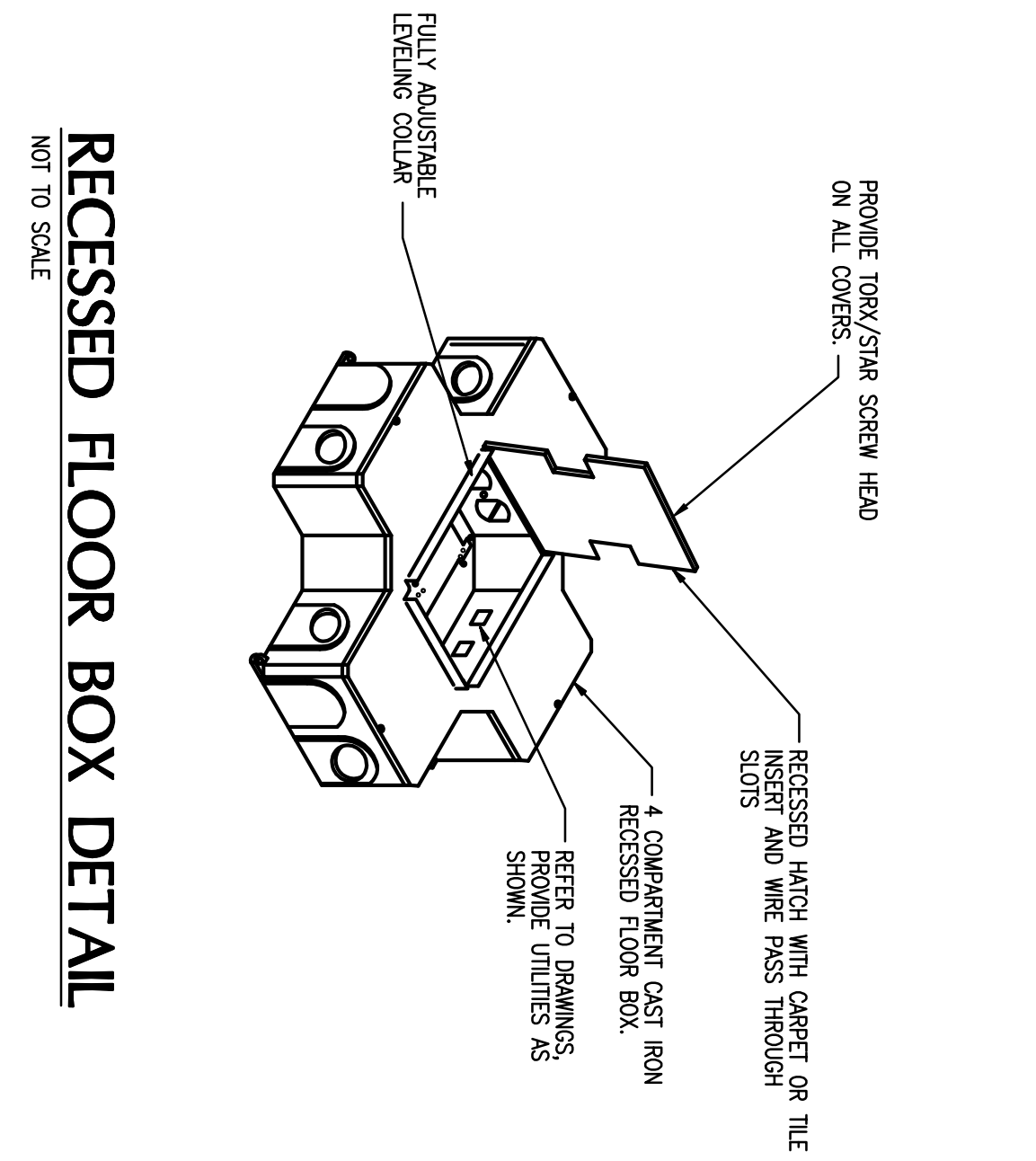
DETAIL OF FLOOR STUB-UP CONNECTION
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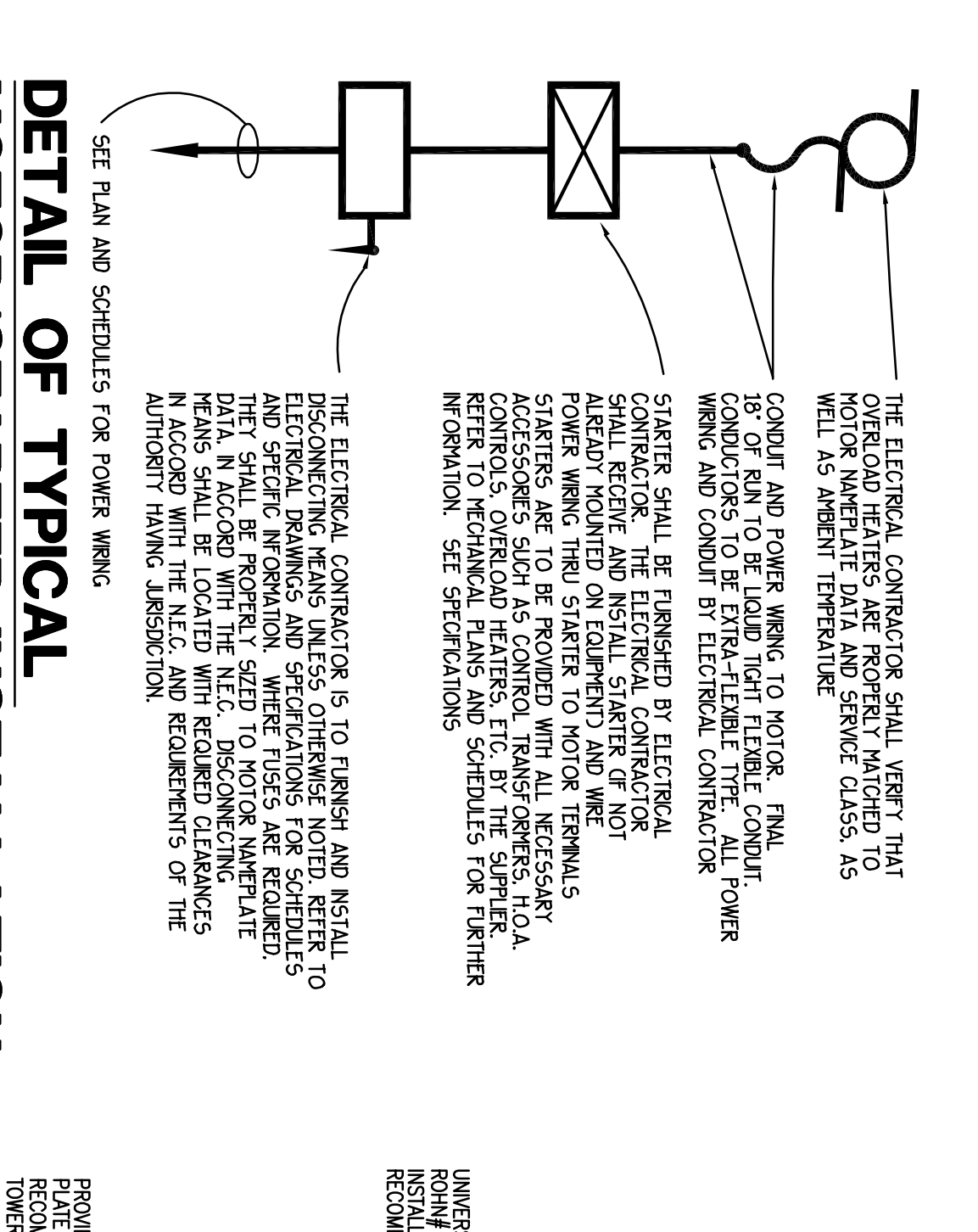
SITE LIGHTING POLE BASE DETAIL 30\"/>



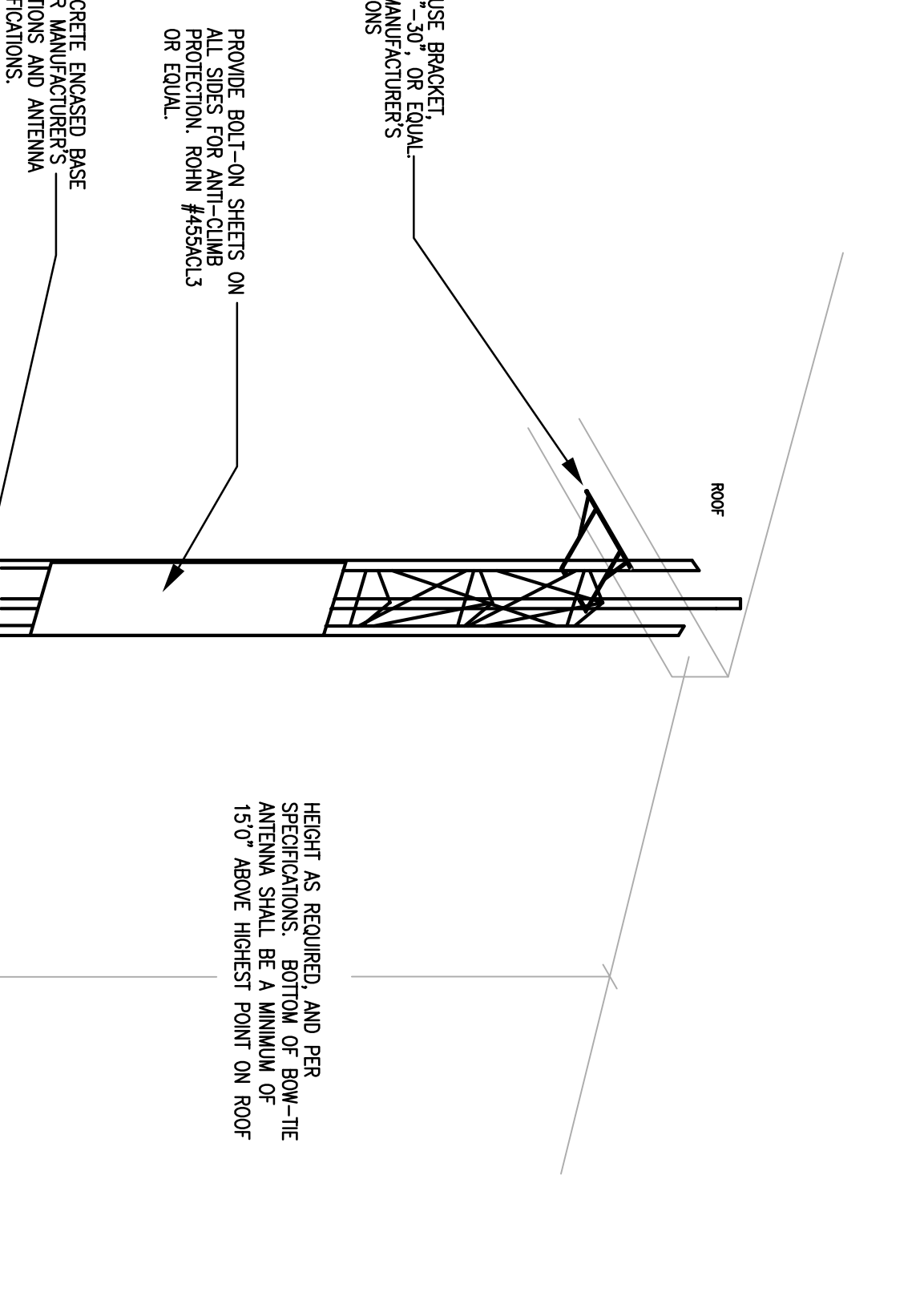
DETAIL OF UTILITY MARKER INSTALLATION
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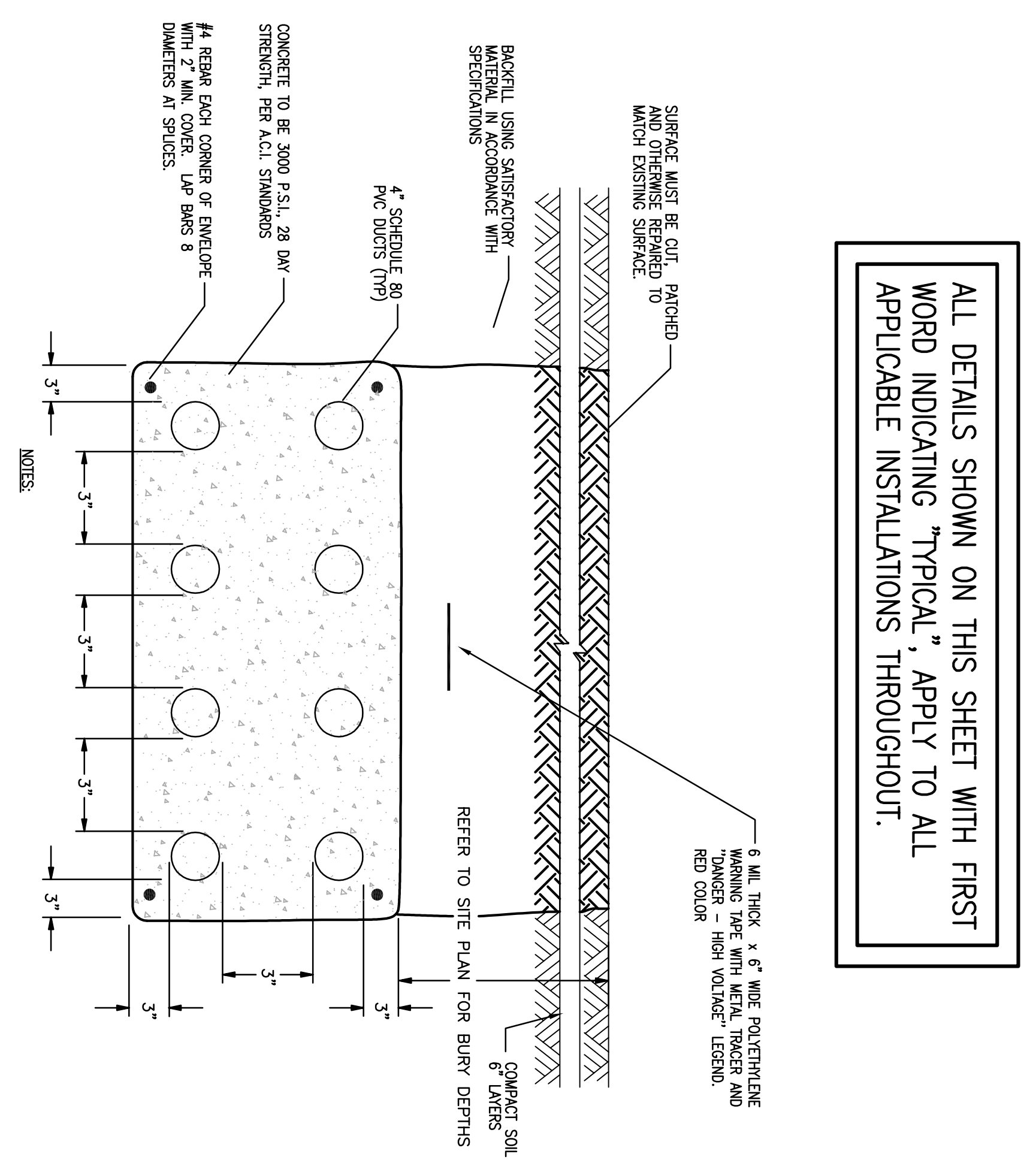
RECESSED FLOOR BOX DETAIL
NOT TO SCALE



DETAIL OF TYPICAL MOTOR/STARTER INSTALLATION
NO SCALE

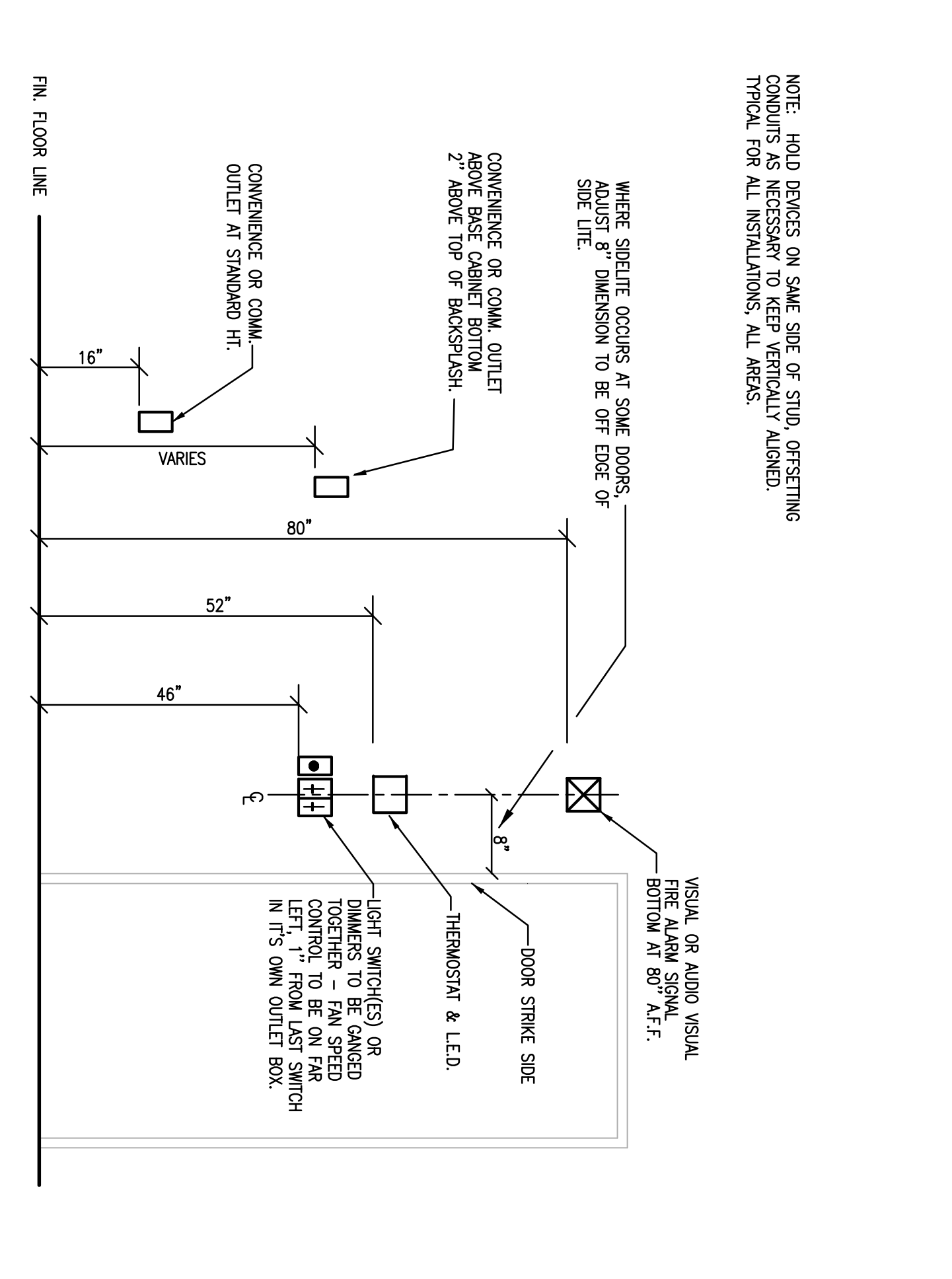


KET ANTENNA TOWER DETAIL
NOT TO SCALE



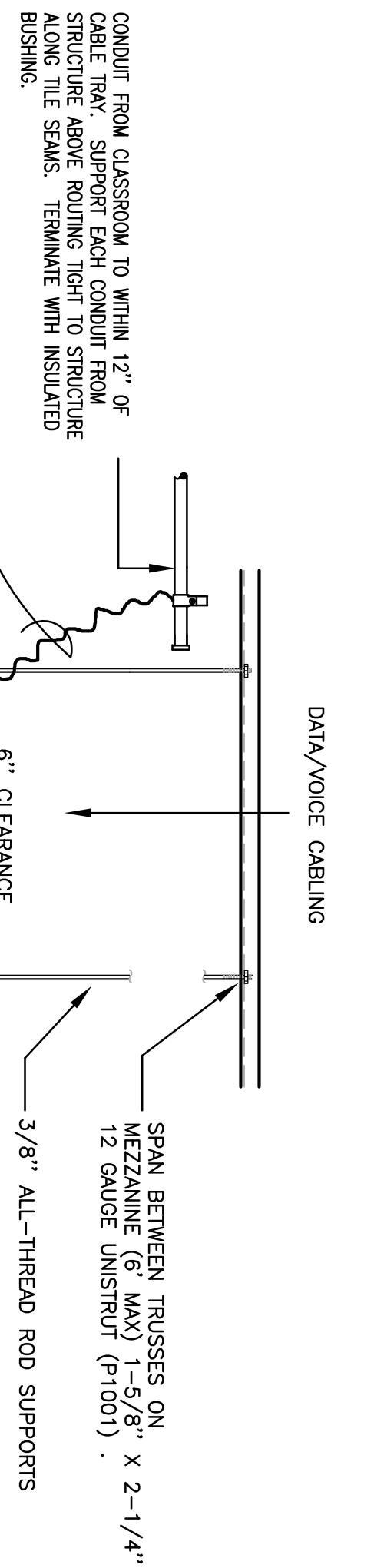
DUCTBANK DETAIL
SCALE: NTS

- GENERAL DUCTBANK NOTES (APPLY TO ALL DUCTBANK DETAILS):
- USE SWEENEY BENS AT ALL TURNS AND ROAD STEEL ELTS WHERE RISING ON POWER POLE OR TURNING UP INTO PRO-MOUNT.
 - POUR CONCRETE OR SAND (AS APPLICABLE) AGAINST UNDISTURBED EARTH.
 - PROVIDE 30\"/>
 - INSTALL INTERLOCKING BASE SPACERS THAT PROVIDE 3\"/>
 - OUTSIDE CONDUIT WALLS SHALL INTERLOCK AT INTERMEDIATE SPACERS THAT PROVIDE 3\"/>
 - CUSTOMER/CONTRACTOR TO EXCAVATE AND BACKFILL TRENCHES AND TO FINISH AND INSTALL CONDUITS.
 - PROVIDE CONDUITS TO BE INSTALLED AS SHOWN AS PRACTICAL. ANY CHANGED CHANGES IN DIRECTION SHALL HAVE A BENDING POINTS OF NOT LESS THAN 50 FEET UNLESS OTHERWISE DIRECTED. BOTTOM OF TRENCH SHALL BE CLEAN, EXPL. UNDISTURBED EARTH OR GRAVEL. CONDUITS ARE SUBJECT TO DAMAGED. TESTING FOR ROUNDNESS.
 - CONTACT LOCAL UTILITY AND ENGINEER IF REQUIRED DEPTH CANNOT BE OBTAINED. ADDITIONAL DEPTH MAY BE REQUIRED FOR JOIN-USE TRENCHES OR WHERE CONDUITS MUST BE LAPPED.
 - BOTTOM 12\"/>
 - 3/4\"/>

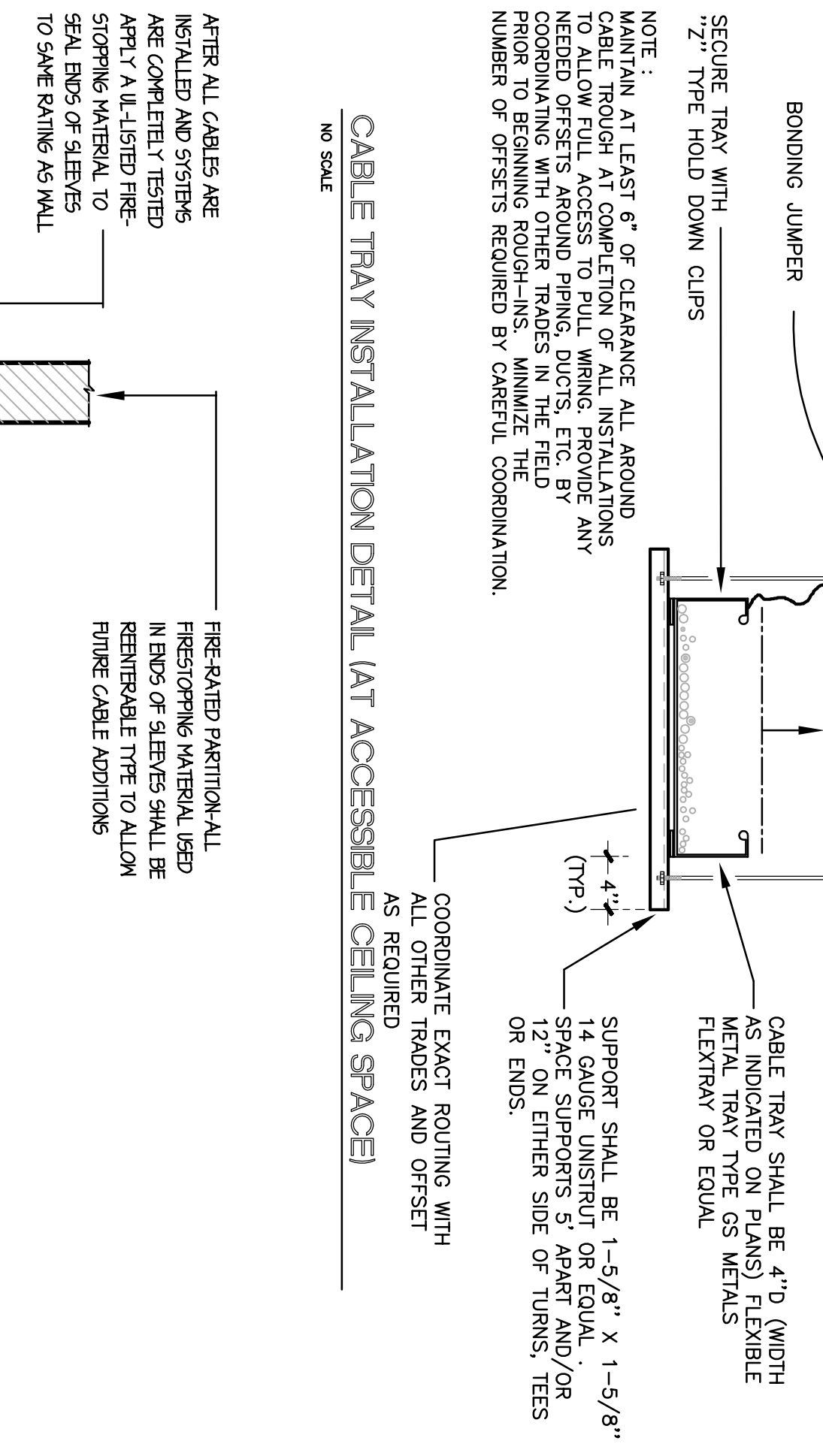


TYPICAL INSTALLATION OF ELECTRIC DEVICES
NOT TO SCALE

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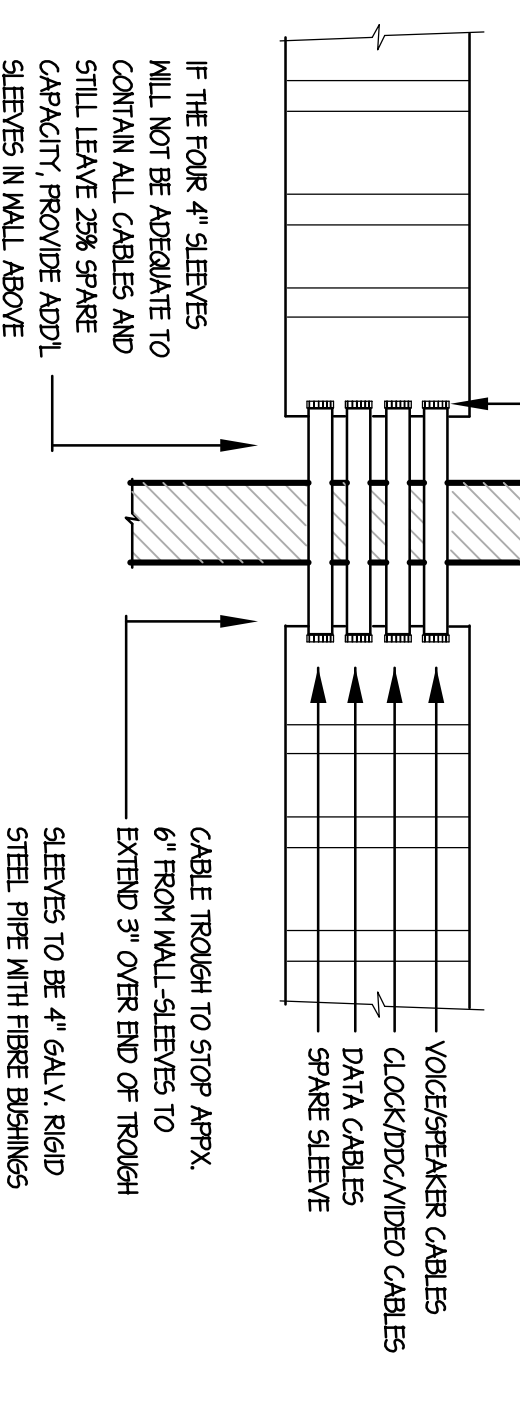


CABLE TRAY INSTALLATION DETAIL (AT ACCESSIBLE CEILING SPACE)



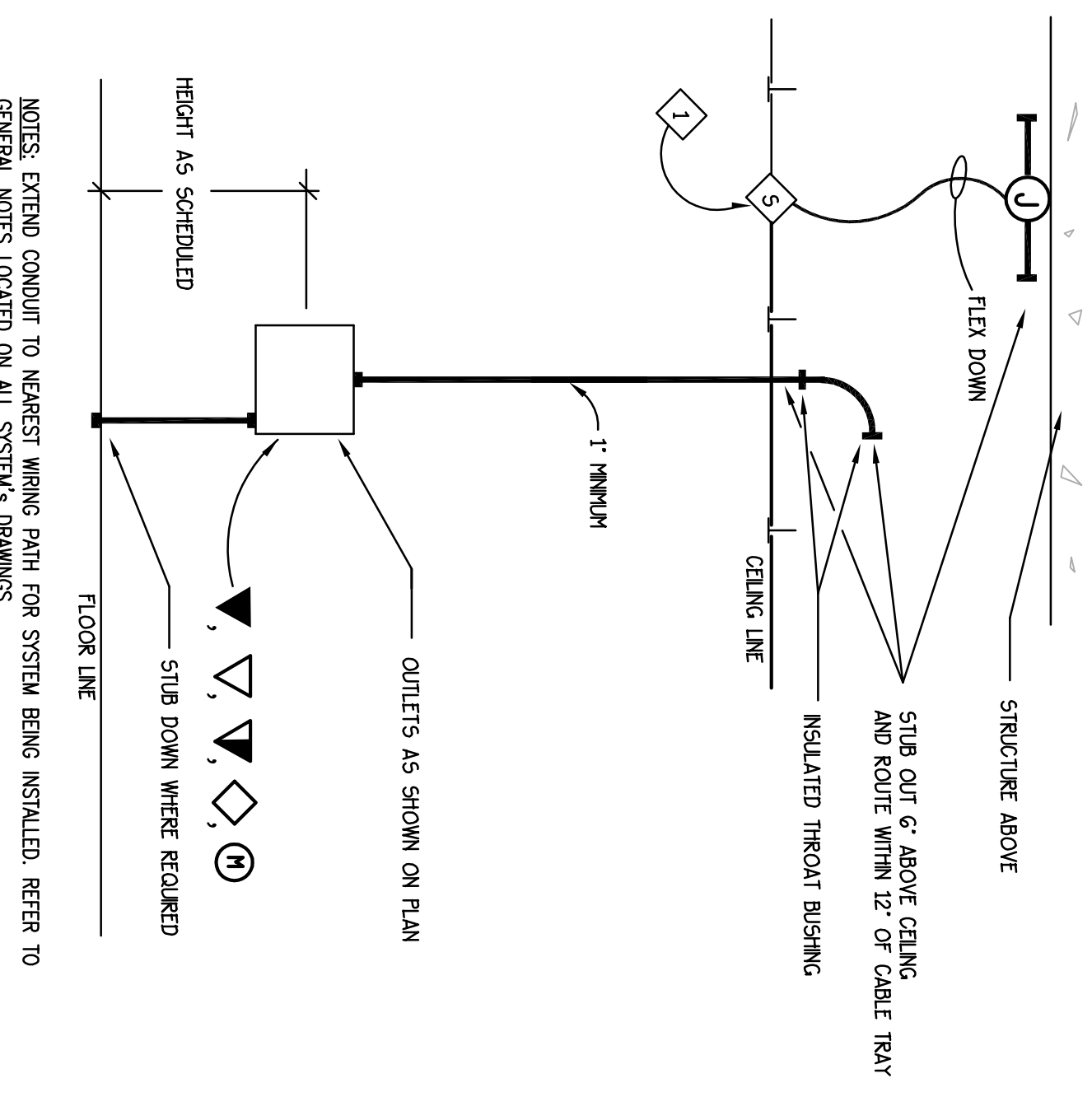
DETAIL OF CABLE TRAY PENETRATION THRU RATED WALL

ALL DETAILS SHOWN ON THIS SHEET WITH FIRST WORD INDICATING "TYPICAL". APPLY TO ALL APPLICABLE INSTALLATIONS THROUGHOUT.

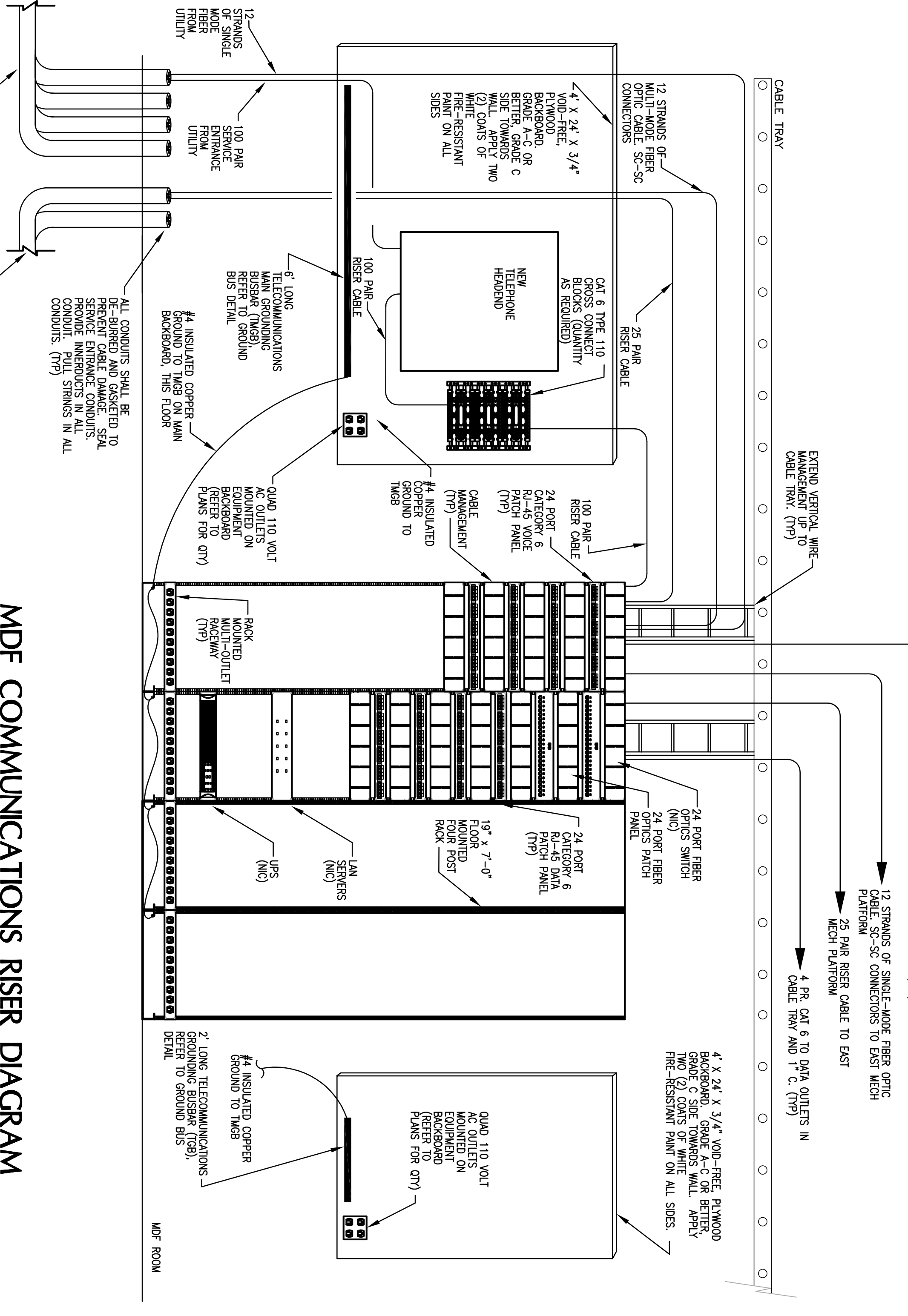


- GENERAL NOTES:
1. ALL PENETRATIONS THROUGH FLOORS OR WALLS SHALL BE FIRE STOPPED BY APPROVED METHOD.
 2. CONTRACTOR SHALL VERIFY ALL PENETRATIONS WITH MANUFACTURERS RECOMMENDATIONS.
 3. ALL CONDUITS SHALL BE PROVIDED WITH FULL WIRE.
 4. TOTAL SPACING FROM HORIZONTAL PATCH PANEL OR CROSS CONNECT TO HORIZONTAL OUTLET SHALL NOT EXCEED 275\".
 5. CABLE TRAY SHALL BE BENDED TO ALL CONDUITS THAT ARE SERVED FROM IT.
 6. CONTRACTOR SHALL PROVIDE DATA PATCH PANELS, 1 PORT PER EACH JACK WITH 25% SPARE CAPACITY. ALL CABLING SHALL REMAIN ON RACK-MOUNT PATCH PANELS. ALL HORIZONTAL CABLING SHALL BE FLEXIBLE.
 7. ALL DATA AND CABLE TRAY SHALL BE ROUTED IN CONDUIT FROM DEVICE BOX TO CABLE TRAY.
 8. PROVIDE VERTICAL CABLE MANAGEMENT BETWEEN EACH EQUIPMENT RACK AND AT END OF EACH EQUIPMENT RACK.
 9. PROVIDE HORIZONTAL CABLE MANAGEMENT BETWEEN EACH PATCH PANEL.
 10. ALL FIBER OPTIC CABLING SHALL BE INSTALLED IN 1\".

ROUGH-IN DETAIL FOR STUB-OUTS



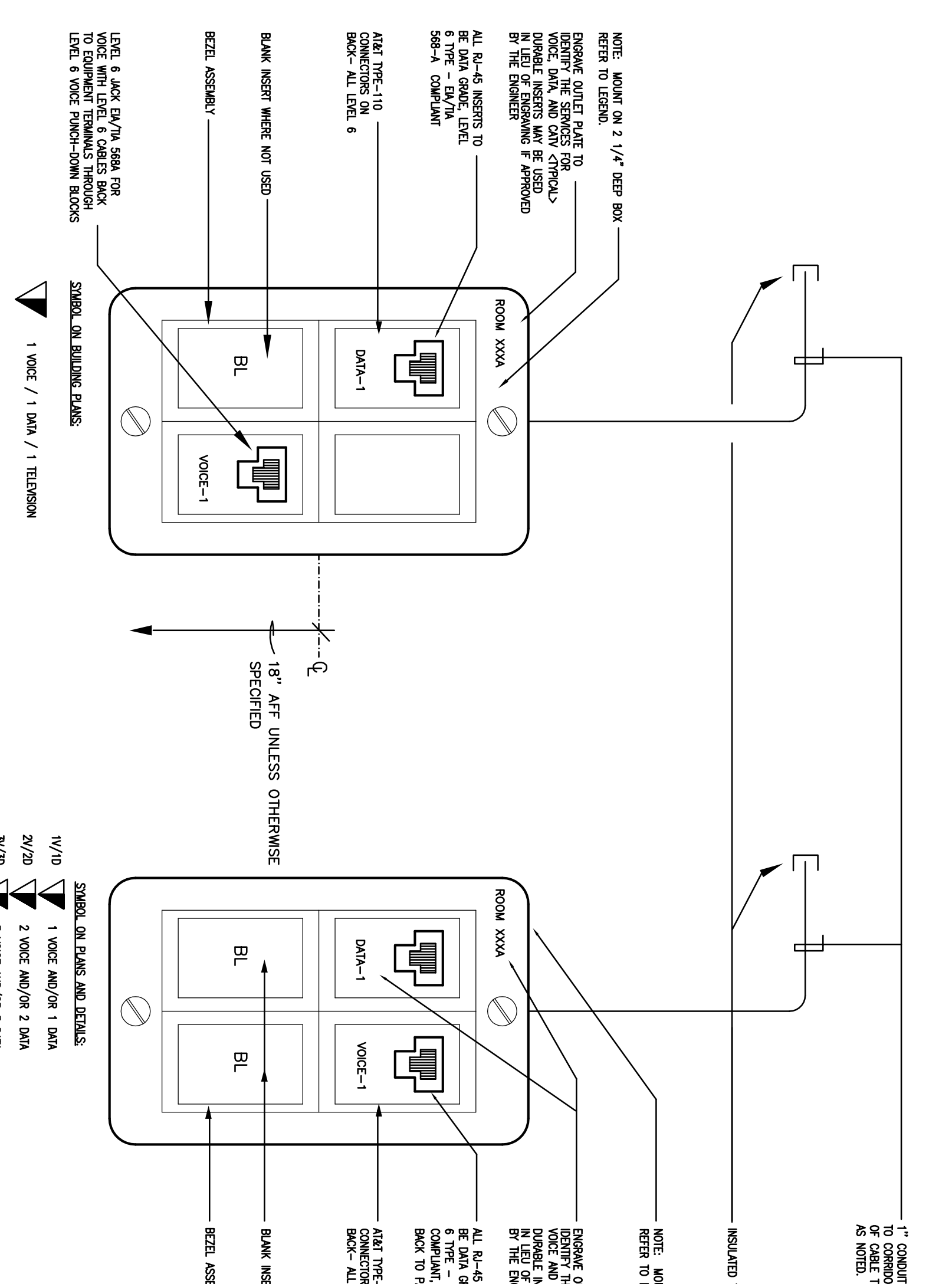
NO SCALE



MDF COMMUNICATIONS RISER DIAGRAM

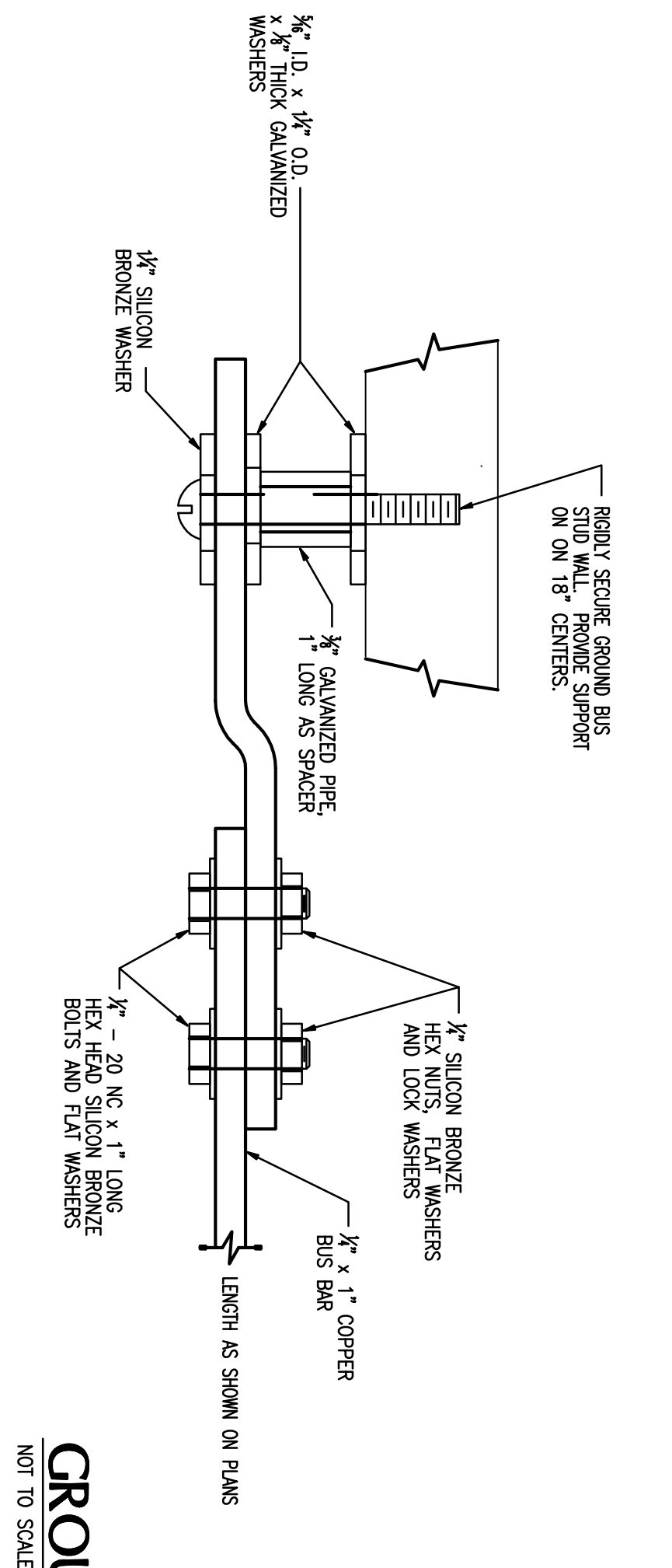
NOT TO SCALE

ADMINISTRATIVE/TEACHER WALLPLATE



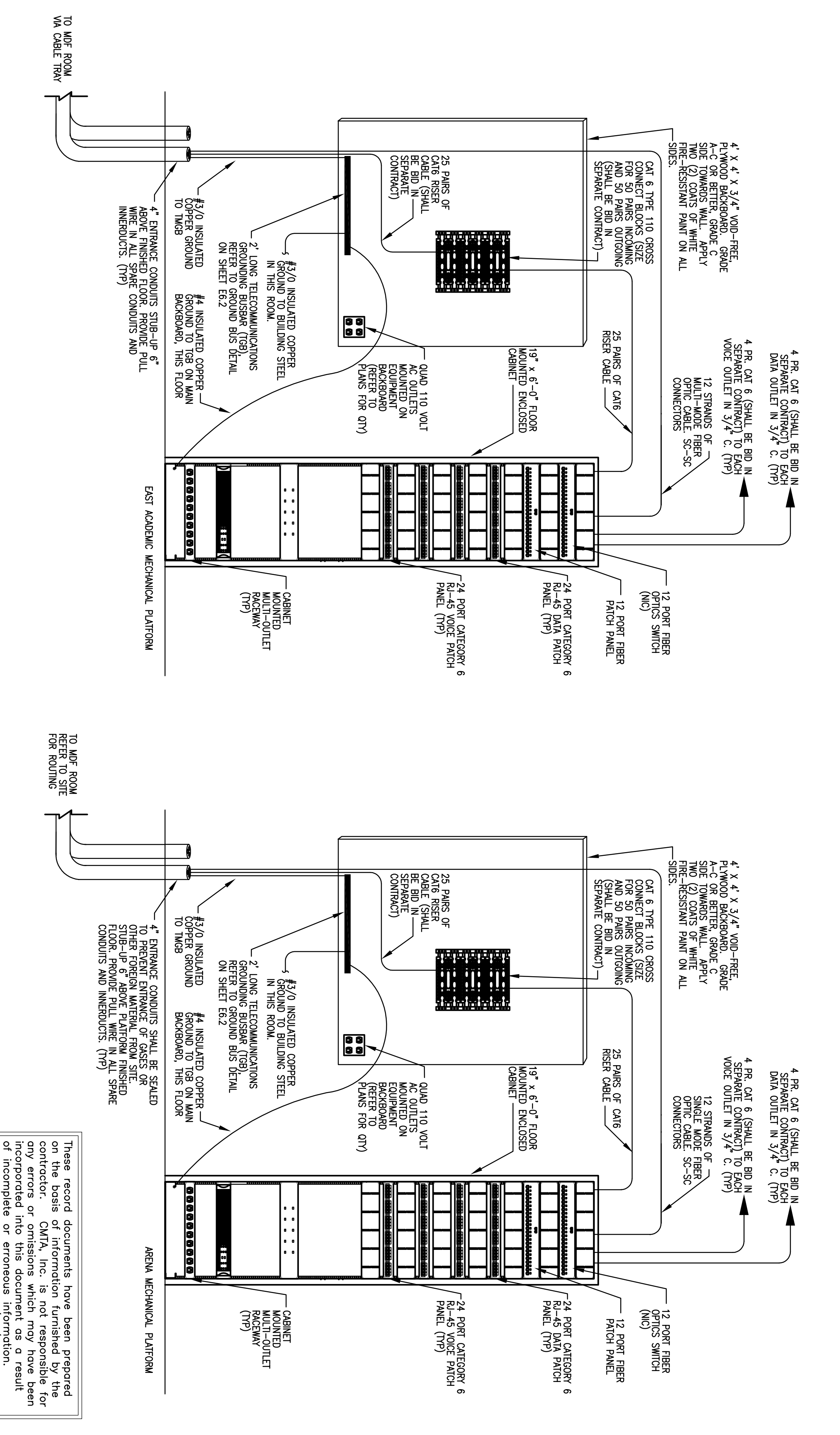
TYPICAL WALLPLATE TYPES FOR VOICE/DATA SYSTEMS

NOT TO SCALE

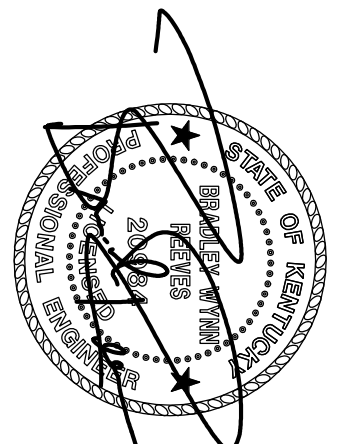


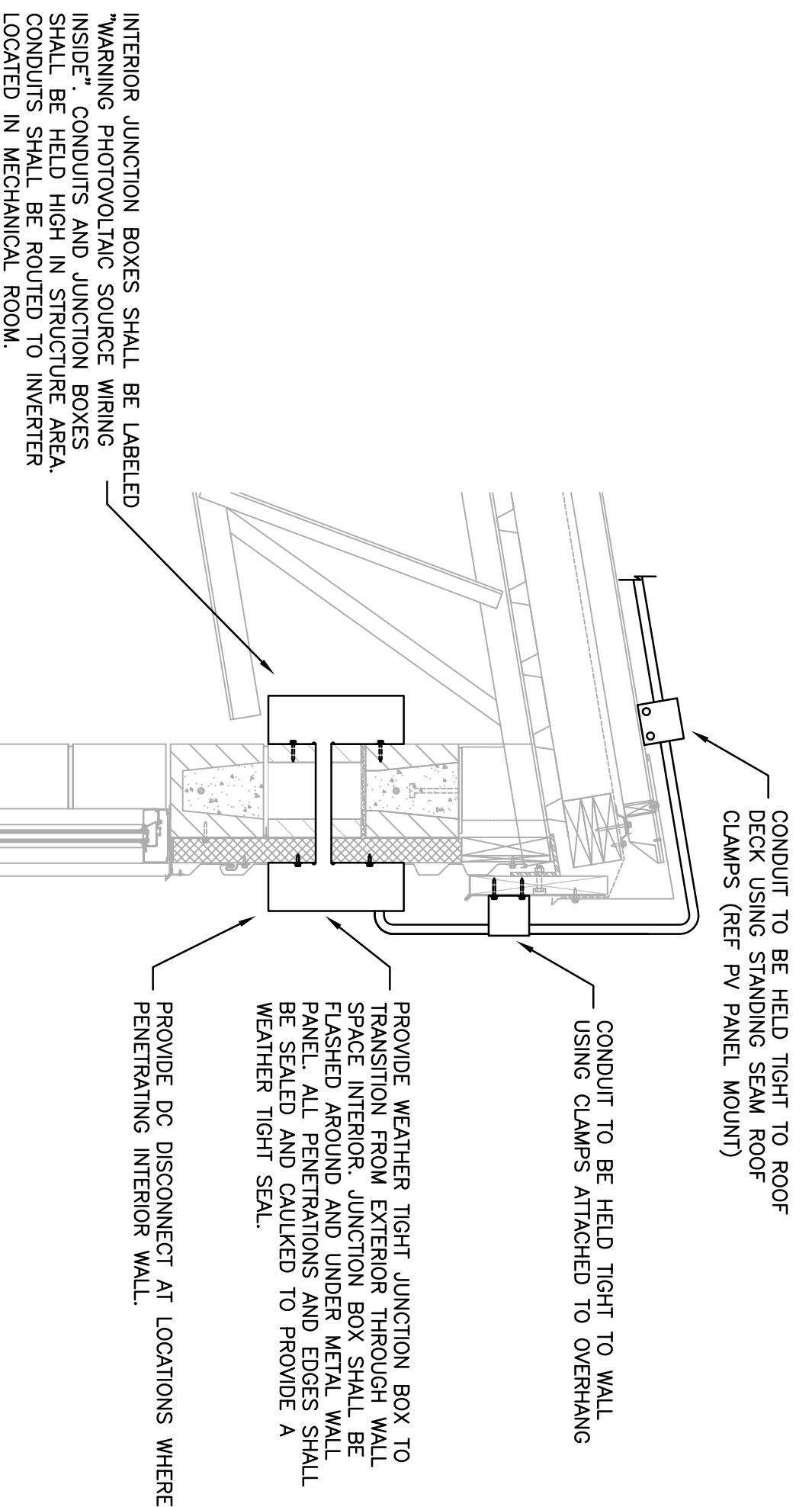
GROUND BUS DETAIL

NOT TO SCALE



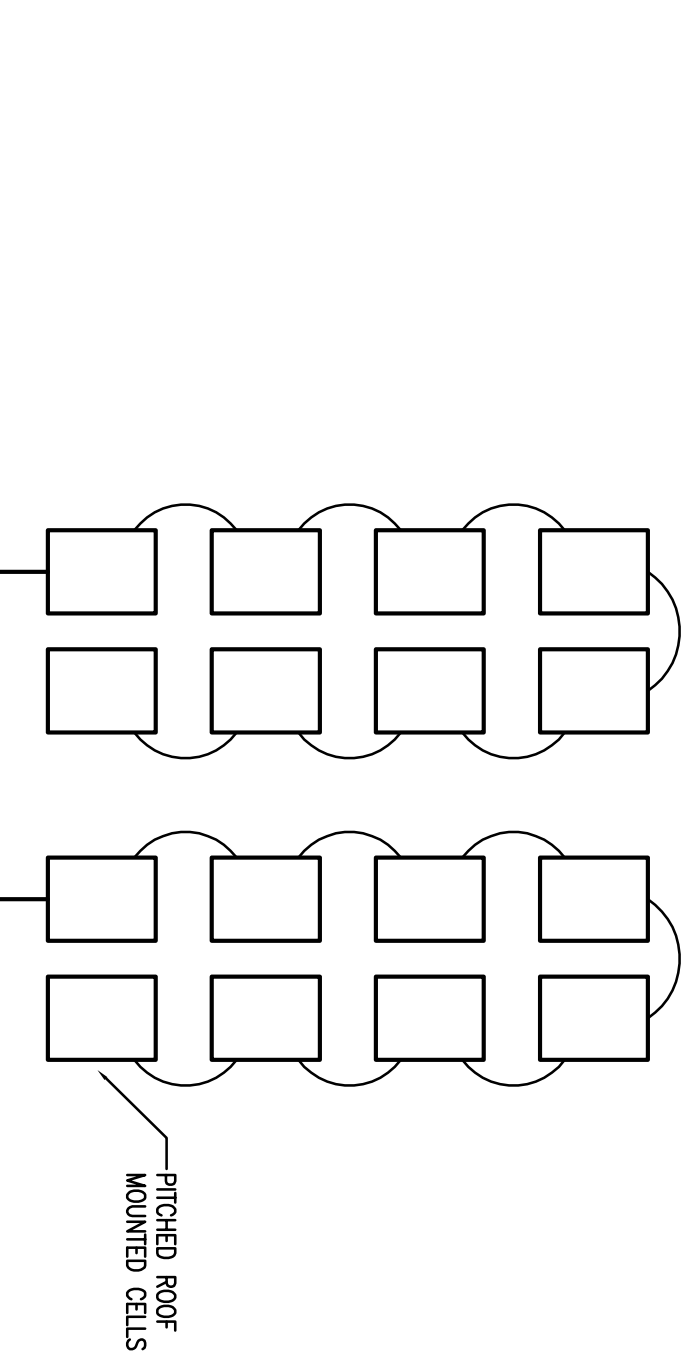
These record documents have been prepared on the basis of information furnished by the contractor. CM/FA, Inc. is not responsible for any errors or omissions which may have been made in this document. If you find any errors or omissions, please notify us immediately. Record Documents Date: 02/29/2012





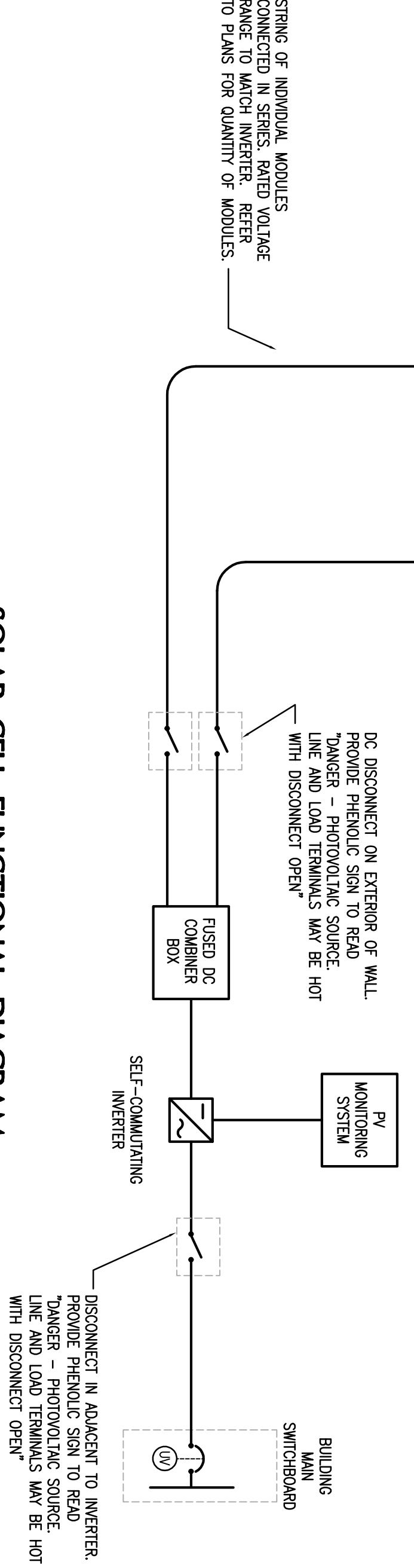
NO SCALE

SOLAR PANEL CONDUIT ROUTING AND PENETRATIONS

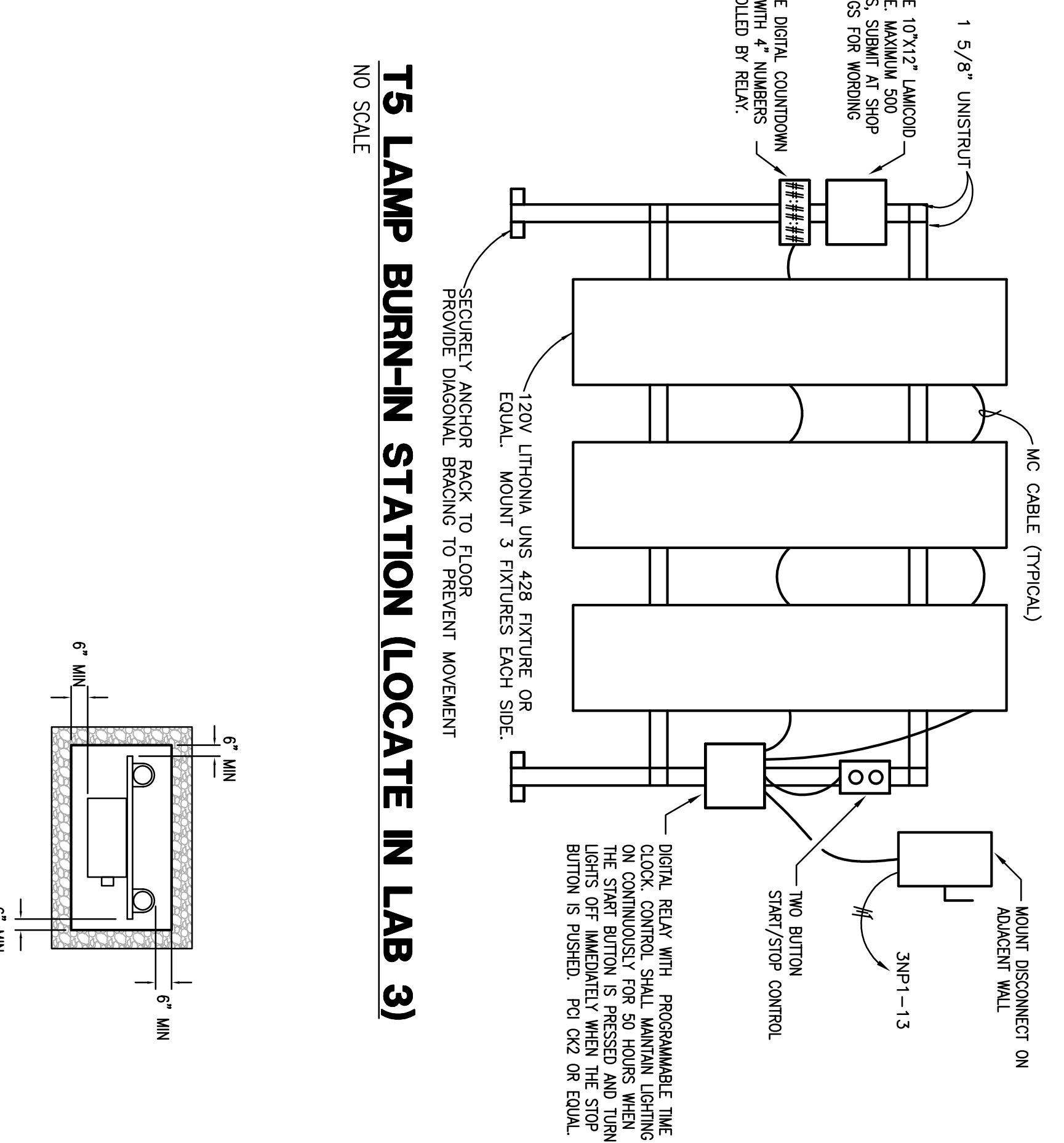


- NOTES:**
- A. THE STATED DRAWING SHOWS A TYPICAL LAYOUT. CONTRACTOR SHALL VERIFY ALL PENETRATIONS WITH MANUFACTURER'S INSTRUCTIONS AND NFPA 70.
 - B. PROVIDE GROUNDING AND BONDING PER NFPA 70 AND NFPA 780.
 - C. PROVIDE STRAPING PER DRAWINGS AND NFPA 70.
 - D. CONTRACTOR SHALL WORK TO MINIMIZE ROOF PENETRATIONS.
 - E. ALL DISCONNECTING DEVICES SHALL BE RATED FOR DIRECT CURRENT (DC) INTERRUPTING.

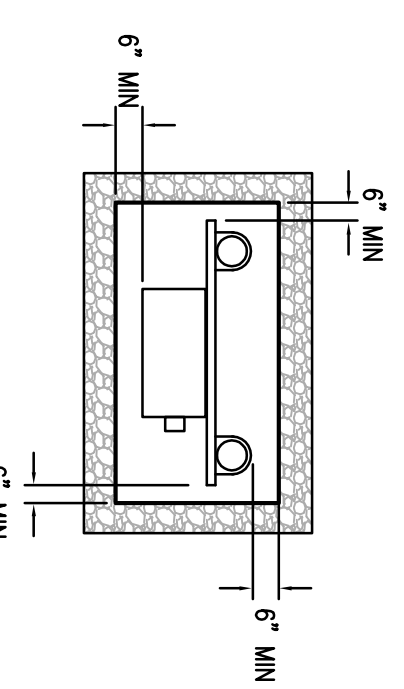
SOLAR CELL FUNCTIONAL DIAGRAM



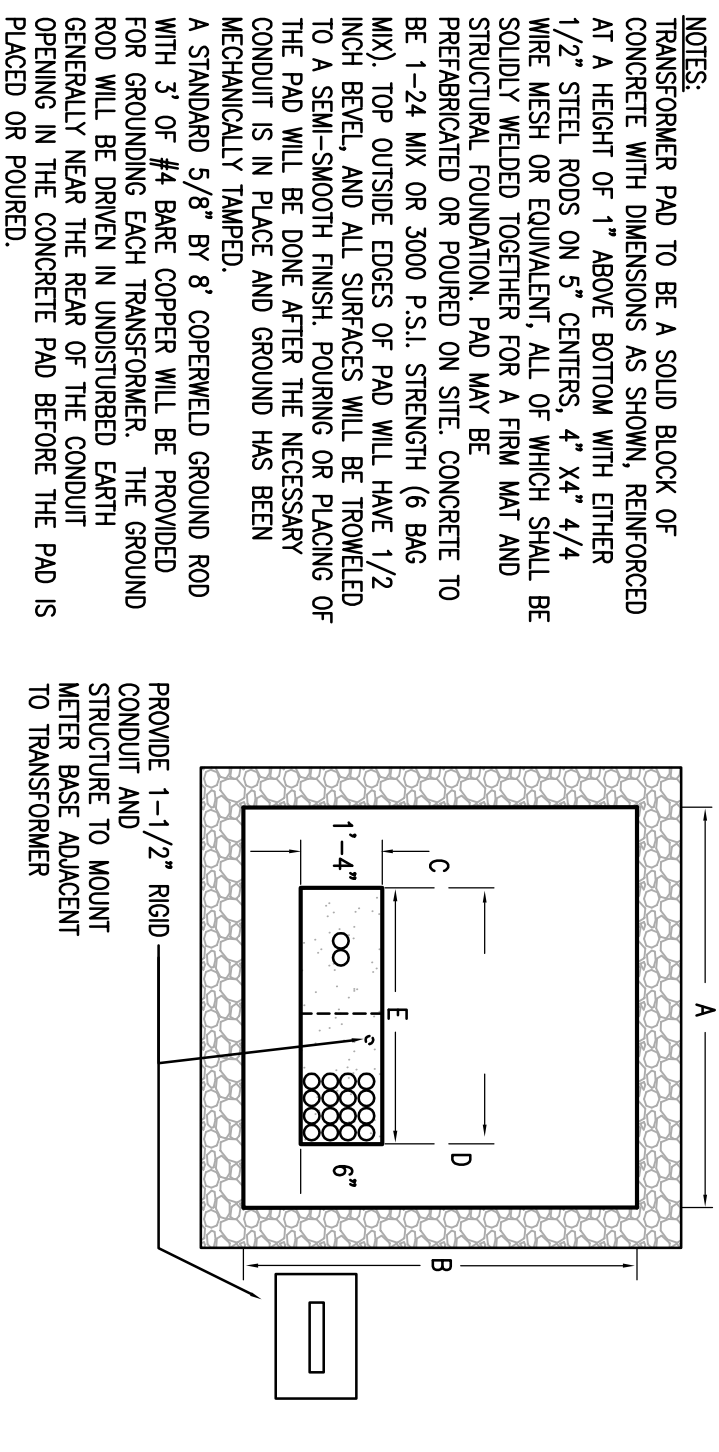
T5 LAMP BURN-IN STATION (LOCATE IN LAB 3)



NO SCALE



DISCONNECT PAD DETAIL



NOTES:

1. TRANSFORMER PAD TO BE A SOLID BLOCK OF CONCRETE WITH DIMENSIONS AS SHOWN, REINFORCED AT A HEIGHT OF 1' ABOVE BOTTOM WITH EITHER WIRE MESH OR #3 REBAR. TRANSFORMER PAD SHALL BE SOLIDLY WELDED TOGETHER FOR A REINFORCED STRUCTURAL FOOTING. TRANSFORMER PAD SHALL BE REINFORCED WITH #4 BARS TO BE 1/2" FROM TOP AND BOTTOM SURFACES AND 1/2" FROM ALL SIDES.
2. TOP OF TRANSFORMER PAD SHALL BE FINISHED TO BE 1-1/2" ABOVE FINISH FLOOR LEVEL. TRANSFORMER PAD SHALL BE 1/2" FROM ALL SIDES AND 1/2" FROM ALL CORNERS. TRANSFORMER PAD SHALL BE FINISHED TO BE 1/2" FROM ALL SIDES AND 1/2" FROM ALL CORNERS.
3. TRANSFORMER PAD SHALL BE FINISHED TO BE 1/2" FROM ALL SIDES AND 1/2" FROM ALL CORNERS.

TRANSFORMER KVA	TRANSFORMER PAD DIMENSIONS (MINIMUM)				
	A	B	C	D	E
45	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
112.5	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"
150	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
225	8'-6"	8'-6"	8'-6"	8'-6"	8'-6"
300	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"
500	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
750	10'-6"	10'-6"	10'-6"	10'-6"	10'-6"
1000	11'-0"	11'-0"	11'-0"	11'-0"	11'-0"
1500	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"
2000	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
2500	12'-6"	12'-6"	12'-6"	12'-6"	12'-6"

TRANSFORMER PAD DETAIL

NOT TO SCALE

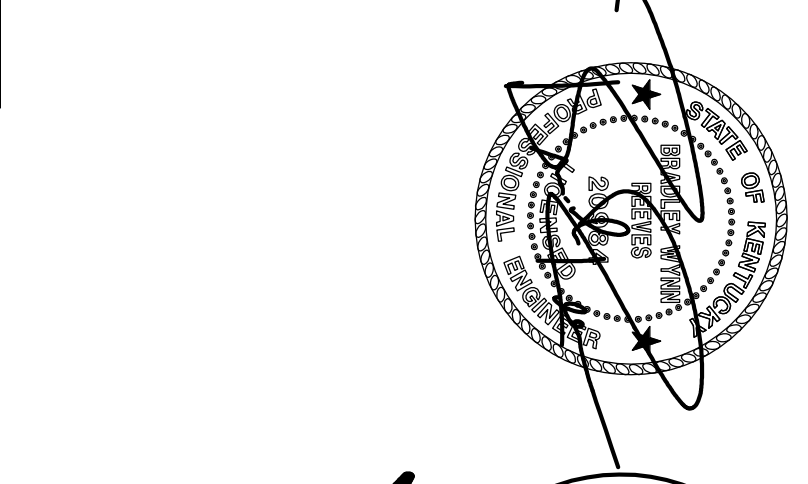
LIFTING SCHEDULE GENERAL NOTES:

- A. ALL LIFTING OPERATIONS SHALL BE PROVIDED WITH SPECIFIC SCHEDULED LIFTING OPERATIONS.
- B. ALL LIFTING OPERATIONS SHALL BE PROVIDED WITH SCHEDULED LIFTING OPERATIONS.
- C. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- D. PROVIDE BOLTS FOR ADDITIONAL REQUIREMENTS.
- E. MANUFACTURER'S WIRING TO BID THIS PROJECT MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- F. CONTRACTOR SHALL PROVIDE LIFTING OPERATIONS TO ALL ELECTRICAL EQUIPMENT.

These record documents have been prepared on the basis of information furnished by the contractor. CMAA, Inc. is not responsible for errors or omissions in these documents or for any consequences that may result from their use. Record Documents Date: 02/29/2012

ALL DETAILS SHOWN ON THIS SHEET WITH FIRST WORD INDICATING "TYPICAL," APPLY TO ALL APPLICABLE INSTALLATIONS THROUGHOUT.

TYPE	DESCRIPTION	MODEL	LUMENS	BALANCE	VOLUME	HEIGHT	NOTES
F10	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F11	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F12	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F13	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F14	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F15	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F16	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F17	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F18	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F19	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F20	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F21	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F22	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F23	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F24	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F25	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F26	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F27	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F28	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F29	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F30	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F31	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F32	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F33	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F34	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F35	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F36	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F37	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F38	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F39	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F40	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F41	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F42	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F43	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F44	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F45	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F46	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
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F51	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F52	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F53	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F54	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F55	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
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F61	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F62	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F63	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F64	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F65	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F66	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F67	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F68	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F69	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F70	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F71	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F72	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F73	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F74	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F75	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F76	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F77	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F78	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F79	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1
F80	LED BURN-IN STATION	CP-300	200	0.000	300	7'-0"	1

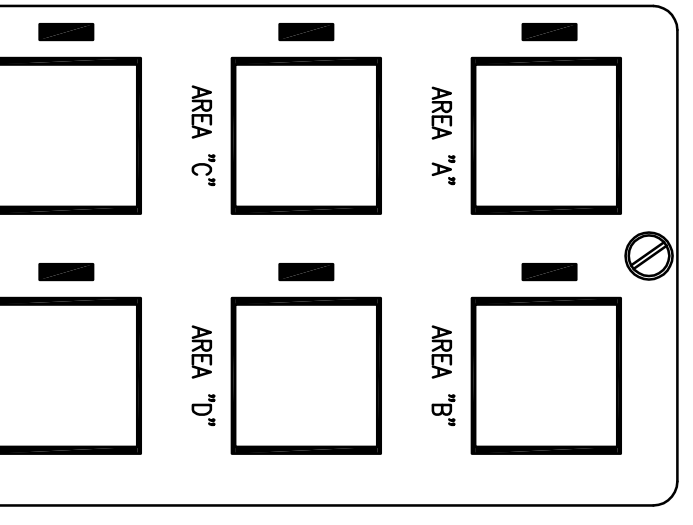
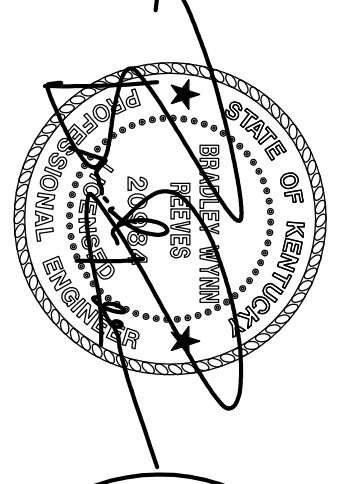


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ACADEMIC BUILDING AREA- ELECTRICAL DETAILS
FAYETTE COUNTY PUBLIC SCHOOLS
Locust Trace Equine AgriScience Farm
3591 Leestown Road Lexington, KY 40511

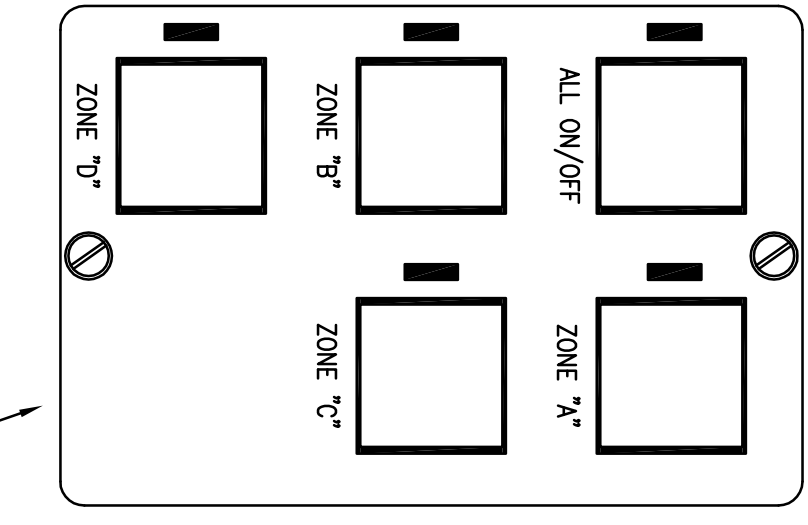
Proj. #: 0901
Date: 5/24/2010
Drawn: IWF
Checked: IWF
Revised:



PROVIDE STAINLESS STEEL CUSTOM COVER WITH FIRST BOTTOM MOUNTARY CONTROLS SWITCHES TO HAVE LED INDICATORS FOR MODE STATUS.

MEDIA CENTER DIGITAL LIGHT SWITCH DETAIL

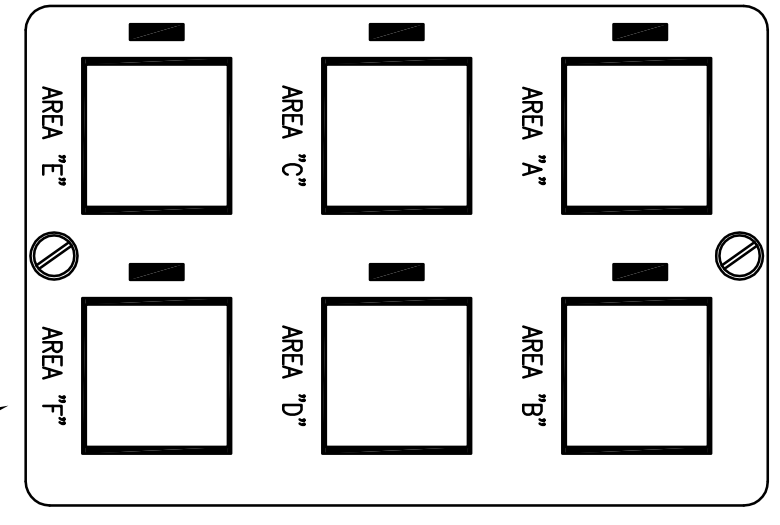
NOT TO SCALE



PROVIDE STAINLESS STEEL CUSTOM COVER WITH FIRST BOTTOM MOUNTARY CONTROLS SWITCHES TO HAVE LED INDICATORS FOR MODE STATUS.

ASSEMBLY DIGITAL LIGHT SWITCH DETAIL

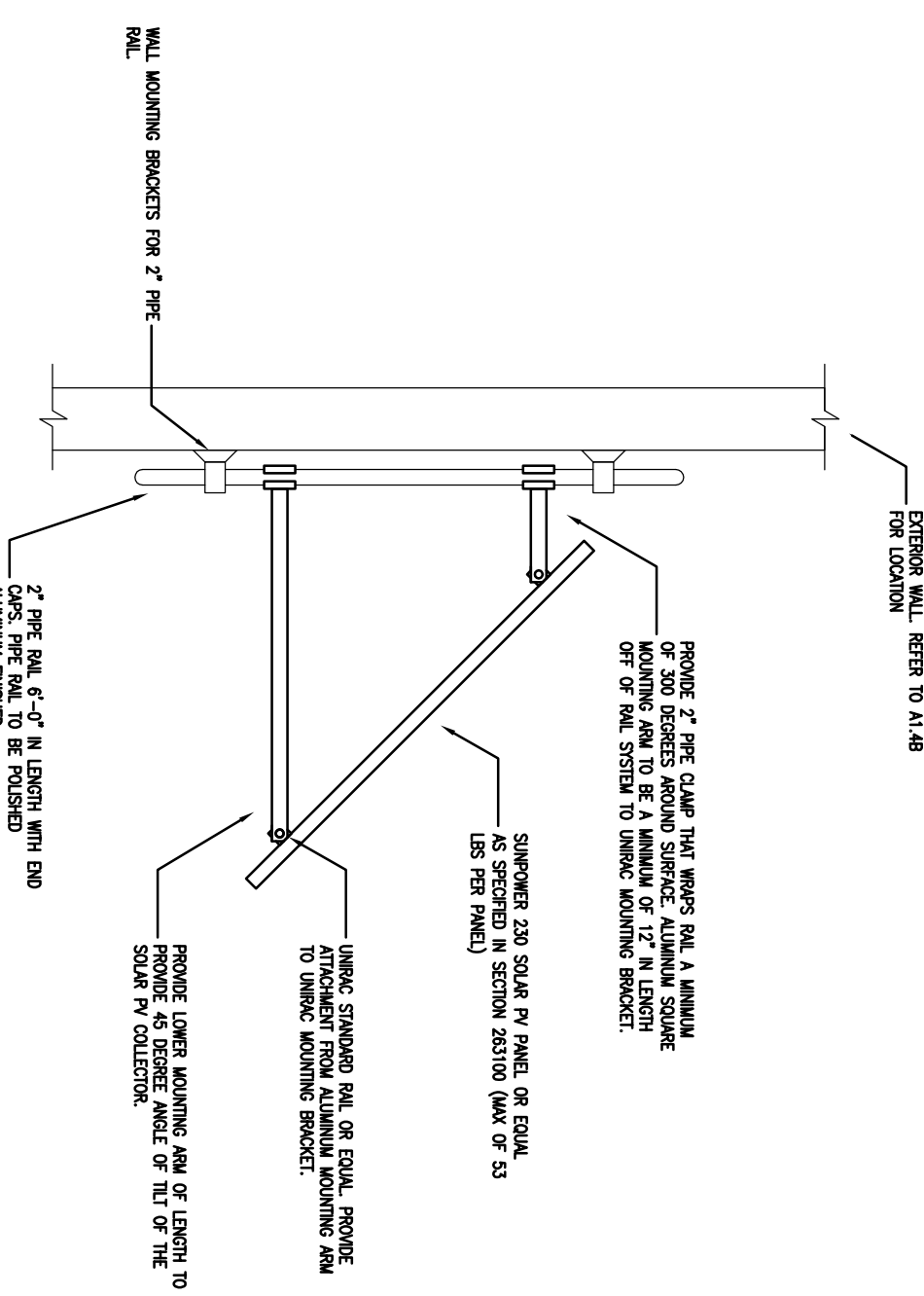
NOT TO SCALE



PROVIDE STAINLESS STEEL CUSTOM COVER WITH FIRST BOTTOM MOUNTARY CONTROLS SWITCHES TO HAVE LED INDICATORS FOR MODE STATUS.

ARENA DIGITAL LIGHT SWITCH DETAIL

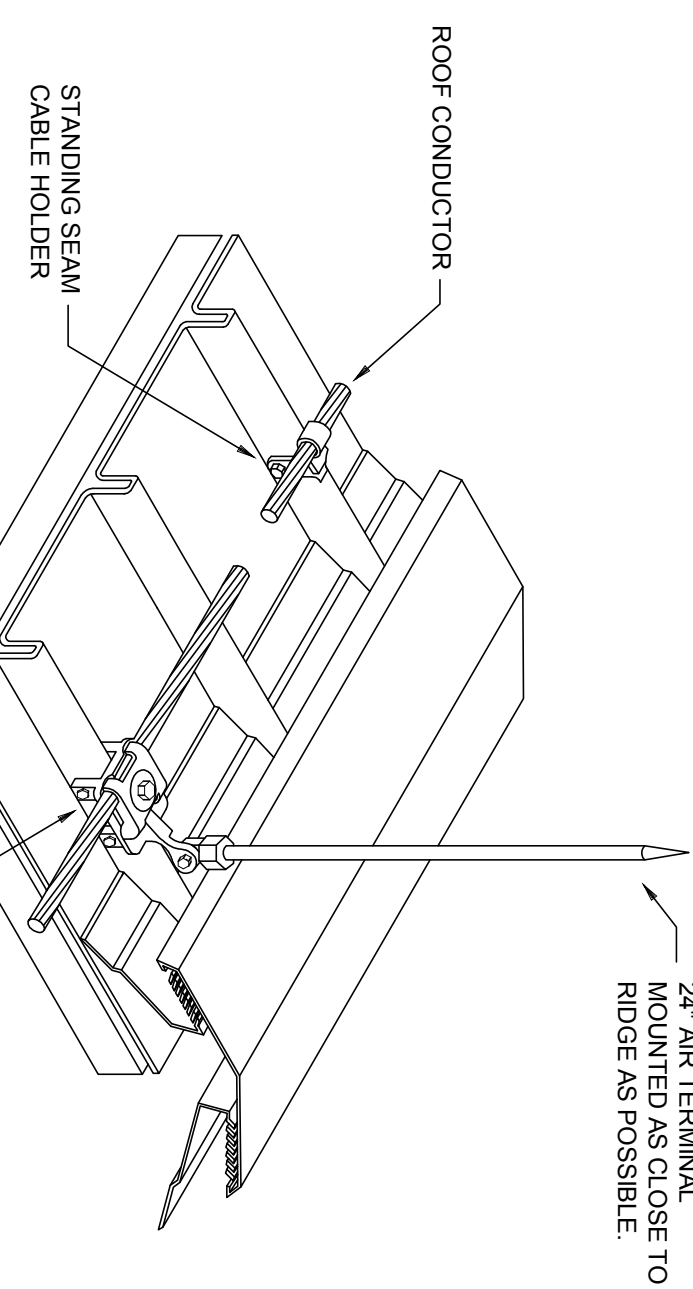
NOT TO SCALE



- GENERAL NOTES:
- ALL SOLAR DC WIRING SHALL BE CONCEALED AND SHALL RUN THROUGH ALUMINUM MOUNTING ANGLE.
 - BUILDING MOUNTED RAILS ARE TO OCCUR AT THE EDGE OF THE SOLAR PV COLLECTOR. MOUNTING SHALL UNITE A SINGLE BUILDING WALL.
 - BY THE BUILDING MOUNTED SYSTEM SHALL INSTALLED SYSTEMS UNIFORMS OF 20 INCH.
 - SYSTEM SHALL CONSIST OF A SOLAR PV COLLECTOR PANEL, CONSUMER SWITCH, AND PV INVERTER. THE PV INVERTER SHALL BE MOUNTED ON THE WALL OR CEILING.
 - THE PV INVERTER SHALL BE LOCATED ABOVE CEILING IN A PROPERLY VENTILATED ENCLOSURE WITH METEOROLOGICAL DATA LOGGING AND SERIAL COMMUNICATIONS TO THE BUILDING MANAGEMENT SYSTEM.
 - ALL PARTS/PICES AND COMPLETE PHOTOVOLTAIC SYSTEM SHALL COMPLY WITH SPECIFICATION 25310X.
 - ALL CLAMPS/PIPE BULBS/FASTENERS, ETC., TO BE ALUMINUM EXTERIOR THROUGH INSULATED BRICK FACE.
 - WORKING SYSTEM TO COMPLY WITH MANUFACTURERS RECOMMENDATIONS FOR STRUCTURAL LOAD OF PV SYSTEM.

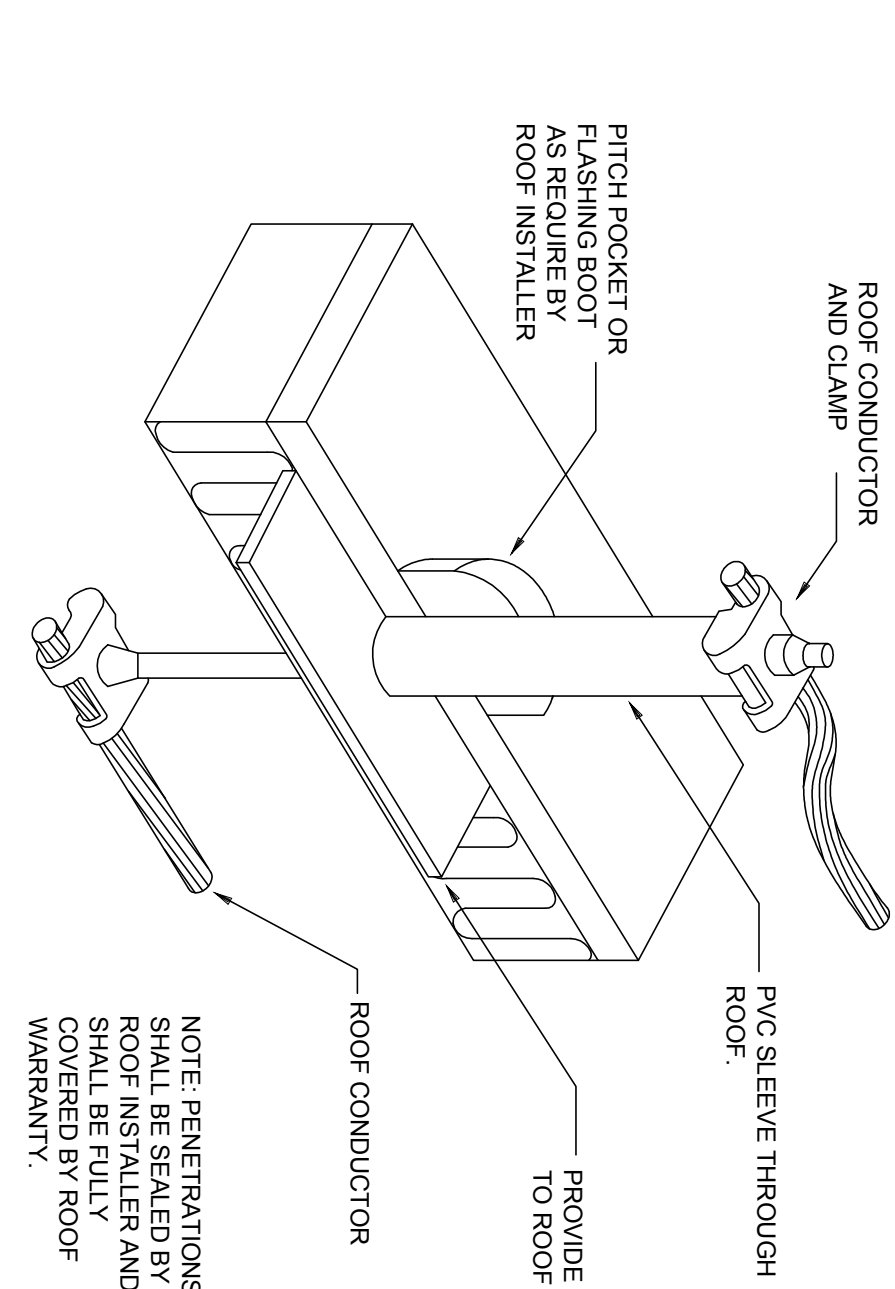
WALL MOUNTED SOLAR PV COLLECTOR MOUNTING/SYSTEM

NOT TO SCALE



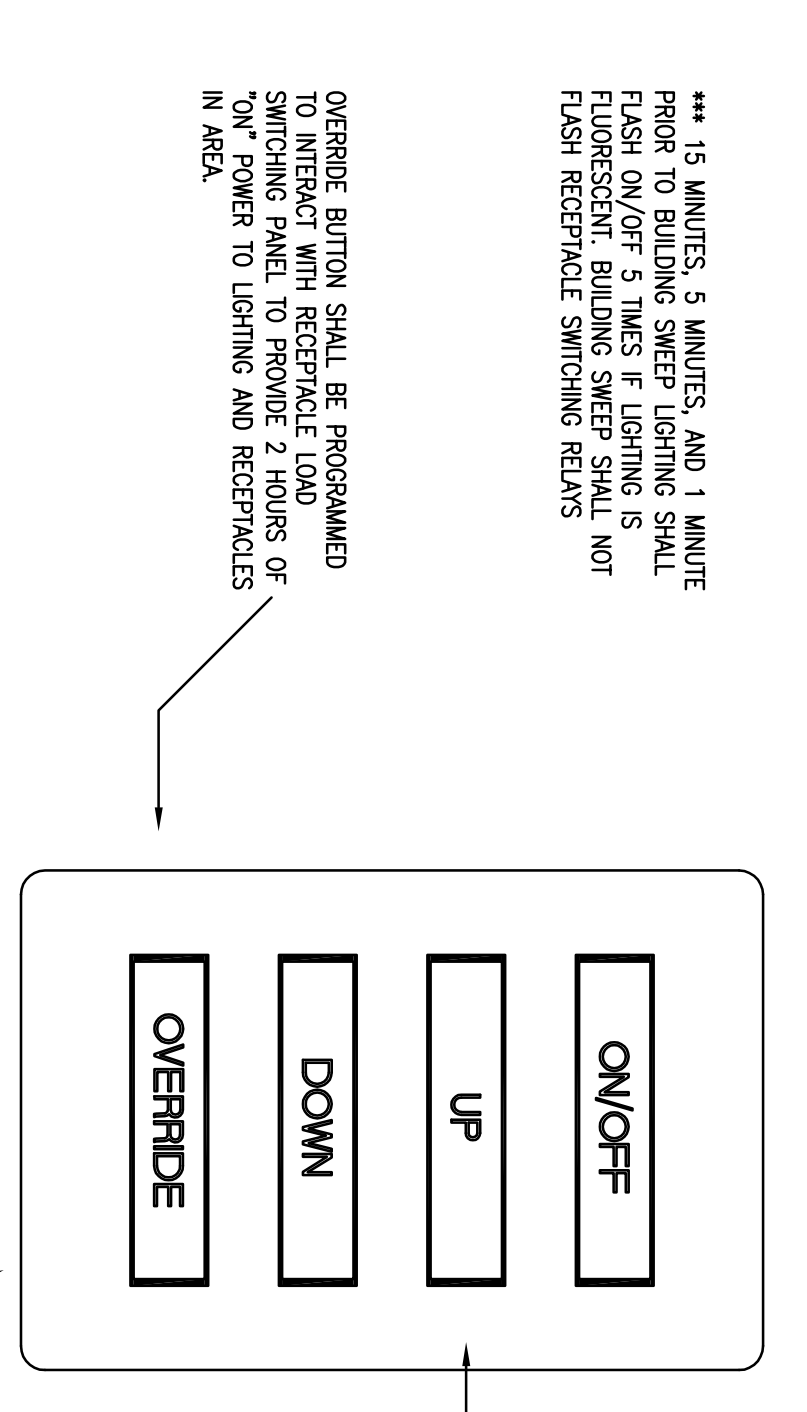
PEAK MOUNTED STANDING SEAM DETAIL

NO SCALE



THRU-ROOF CABLE CONNECTOR DETAIL

NO SCALE



DIGITAL LIGHT SWITCH CONTROL DETAIL

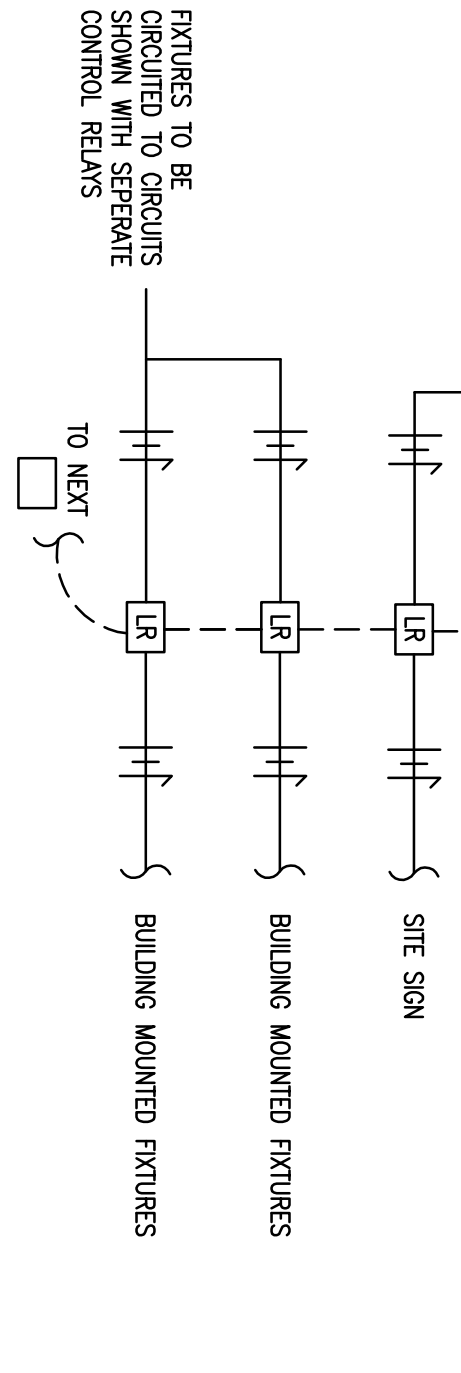
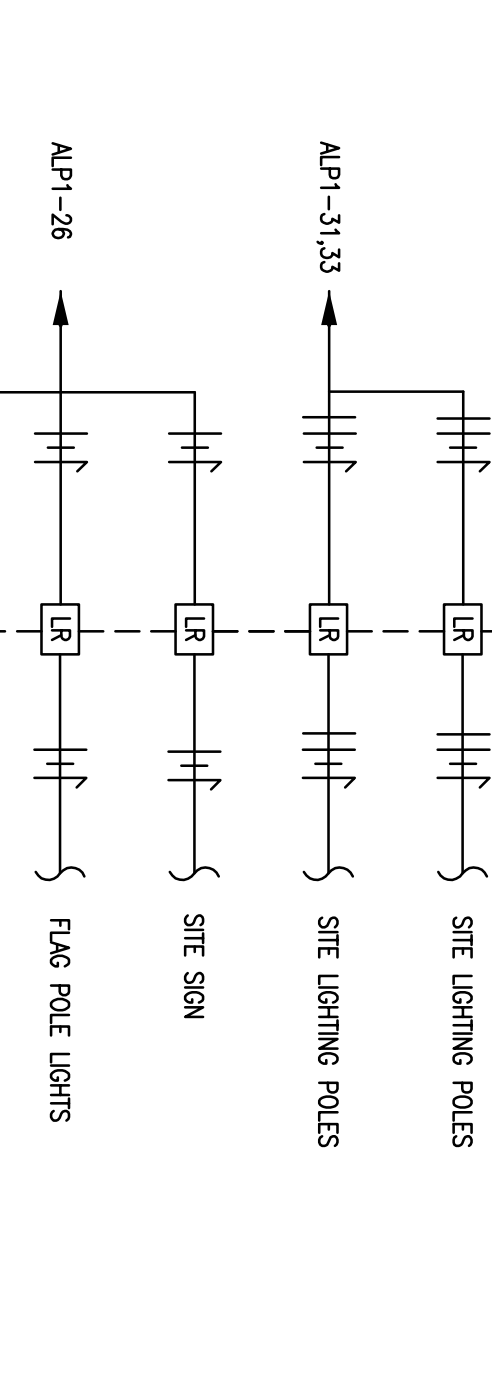
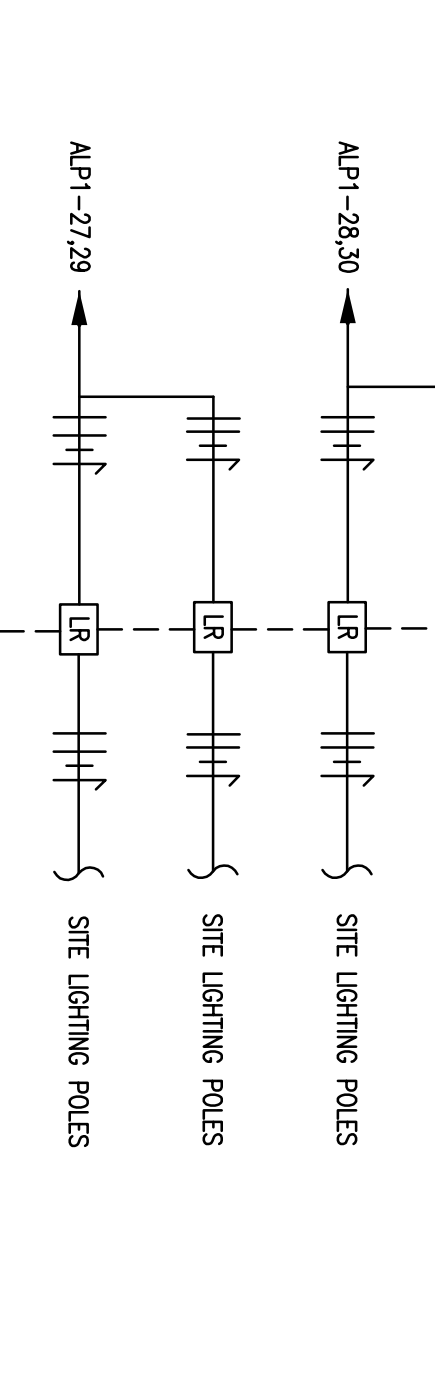
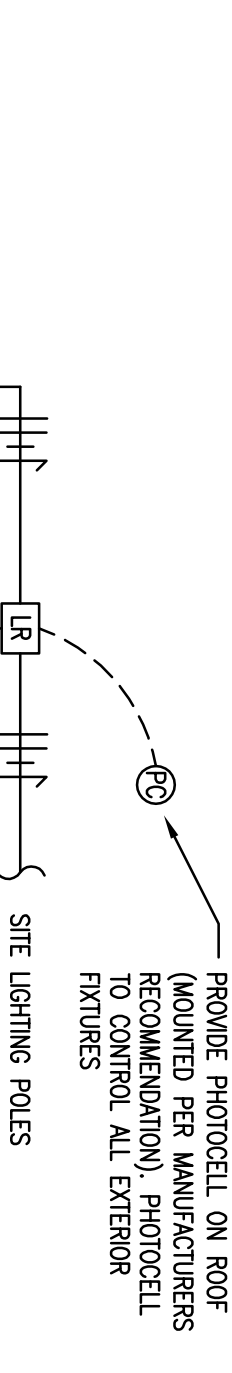
NOT TO SCALE

- GENERAL NOTES:
- ALL SOLAR DC WIRING SHALL BE CONCEALED AND SHALL RUN THROUGH ALUMINUM MOUNTING ANGLE.
 - BUILDING MOUNTED RAILS ARE TO OCCUR AT THE EDGE OF THE SOLAR PV COLLECTOR. MOUNTING SHALL UNITE A SINGLE BUILDING WALL.
 - BY THE BUILDING MOUNTED SYSTEM SHALL INSTALLED SYSTEMS UNIFORMS OF 20 INCH.
 - SYSTEM SHALL CONSIST OF A SOLAR PV COLLECTOR PANEL, CONSUMER SWITCH, AND PV INVERTER. THE PV INVERTER SHALL BE MOUNTED ON THE WALL OR CEILING.
 - THE PV INVERTER SHALL BE LOCATED ABOVE CEILING IN A PROPERLY VENTILATED ENCLOSURE WITH METEOROLOGICAL DATA LOGGING AND SERIAL COMMUNICATIONS TO THE BUILDING MANAGEMENT SYSTEM.
 - ALL PARTS/PICES AND COMPLETE PHOTOVOLTAIC SYSTEM SHALL COMPLY WITH SPECIFICATION 25310X.
 - ALL CLAMPS/PIPE BULBS/FASTENERS, ETC., TO BE ALUMINUM EXTERIOR THROUGH INSULATED BRICK FACE.
 - WORKING SYSTEM TO COMPLY WITH MANUFACTURERS RECOMMENDATIONS FOR STRUCTURAL LOAD OF PV SYSTEM.

LIGHTING CONTROL BOX DETAIL

NOT TO SCALE

ALL DETAILS SHOWN ON THIS SHEET WITH FIRST WORD INDICATING "TYPICAL", APPLY TO ALL APPLICABLE INSTALLATIONS THROUGHOUT.



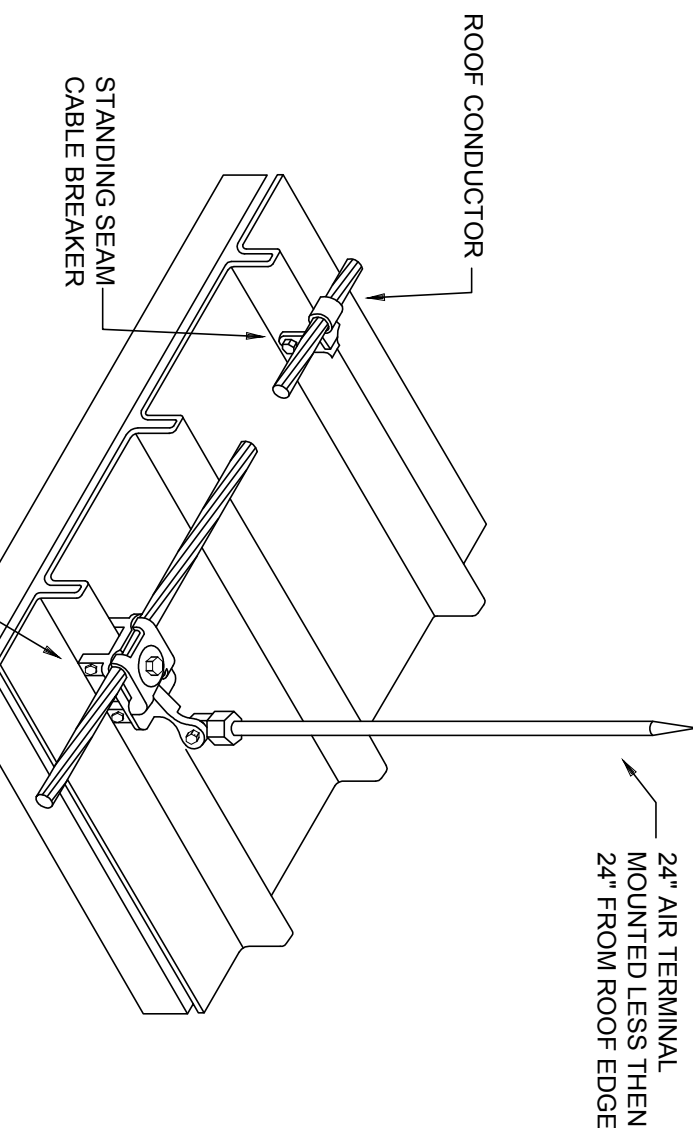
EXTERIOR LIGHTING CONTROL DIAGRAM

NOT TO SCALE

KEY: (THIS DETAIL ONLY)

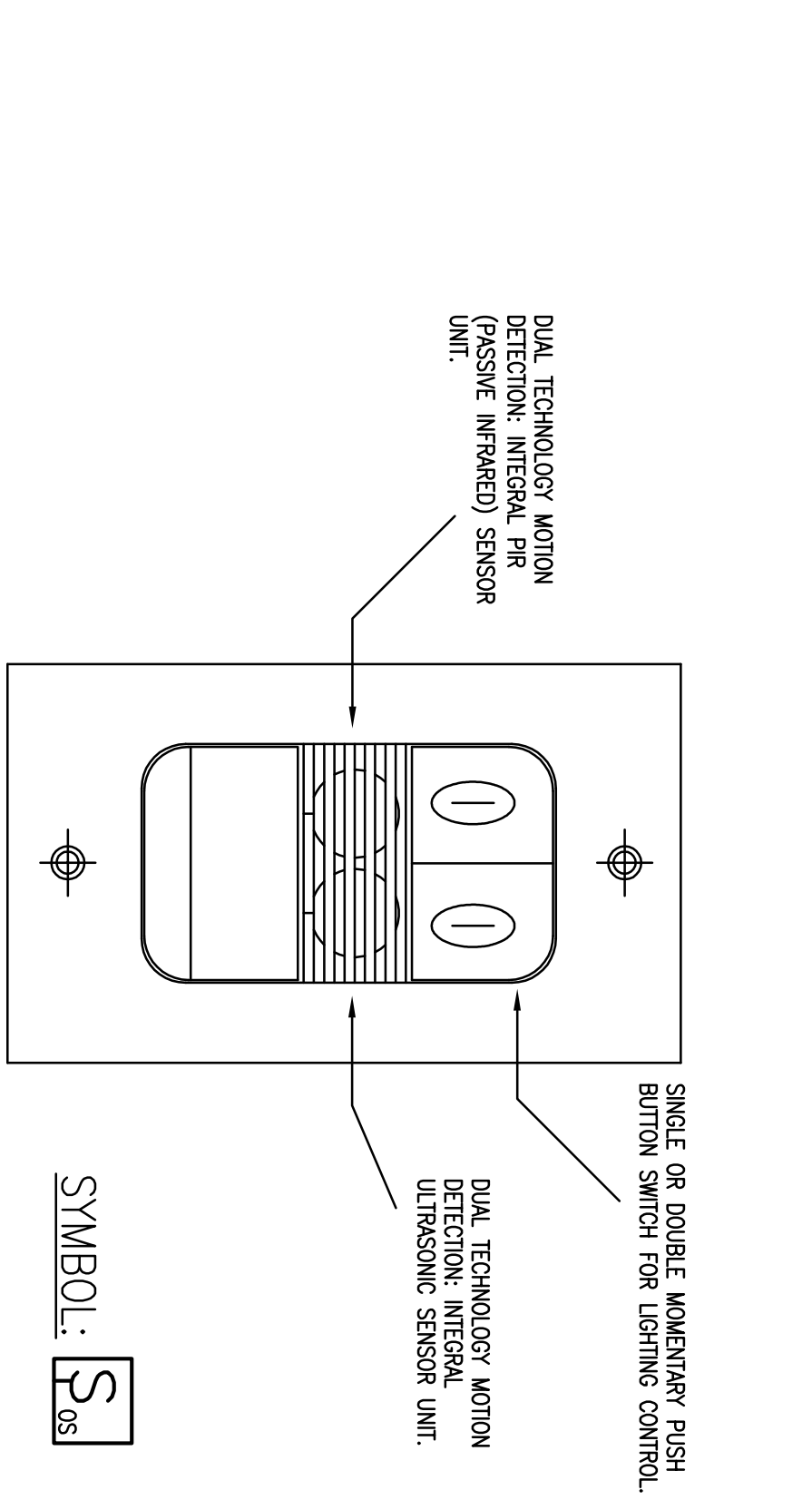
--- DIGITAL COMMUNICATIONS CABLE CABLE

--- LINE VOLTAGE WIRING



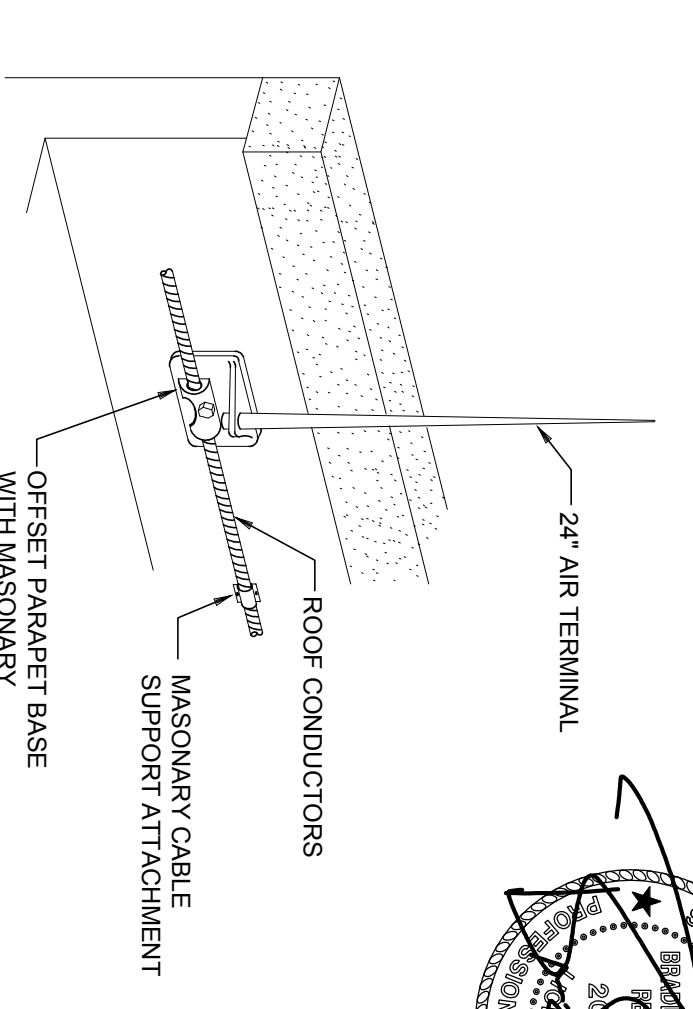
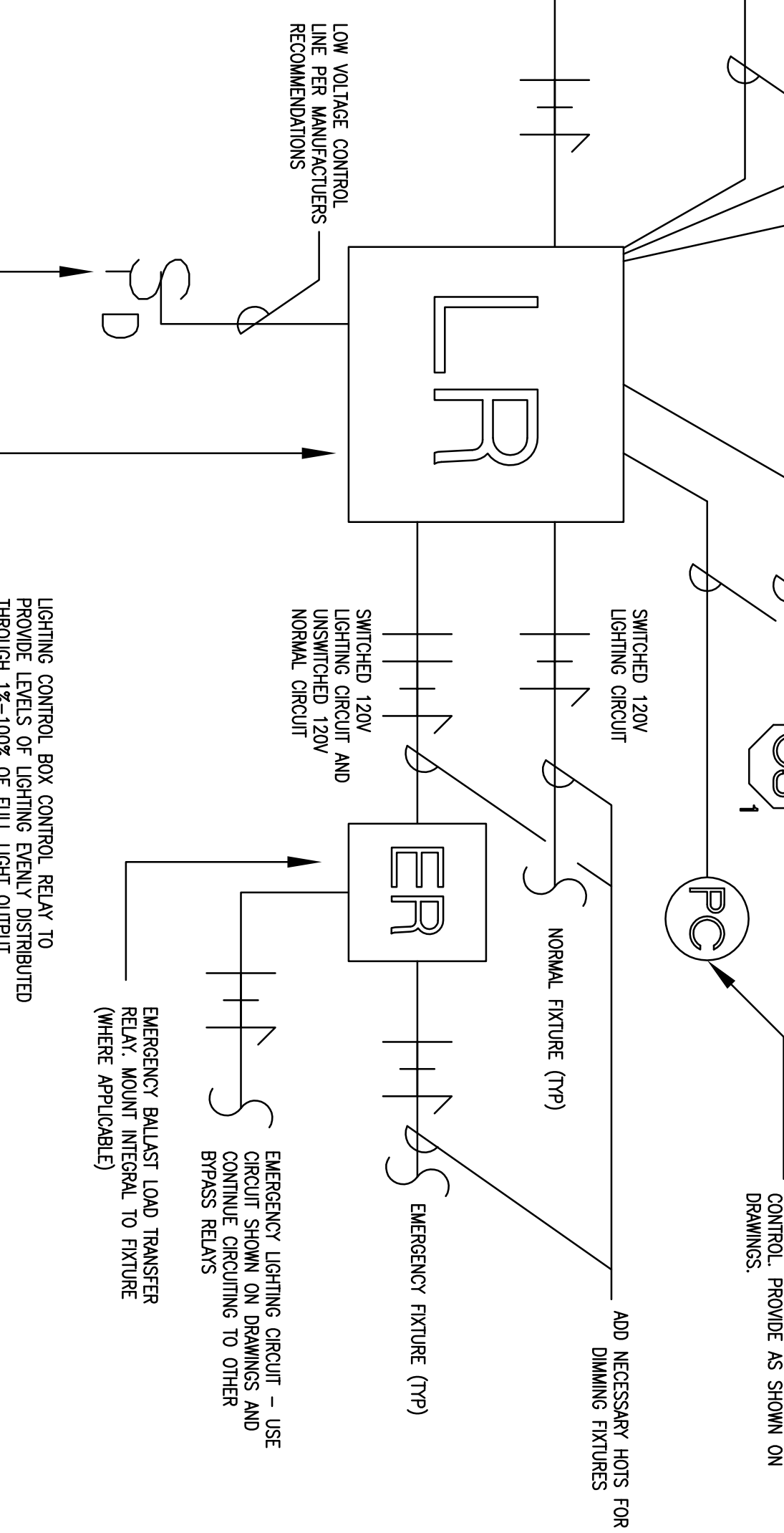
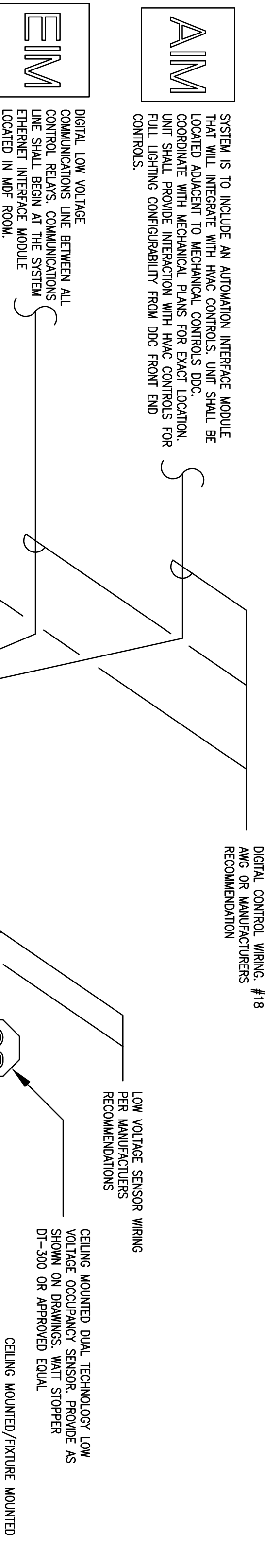
STANDING SEAM DETAIL

NO SCALE



LINE VOLTAGE ULTRASONIC/PIR LIGHT SWITCH

NOT TO SCALE



PARAPET MOUNTED DETAIL

NO SCALE

GENERAL DETAIL NOTE:

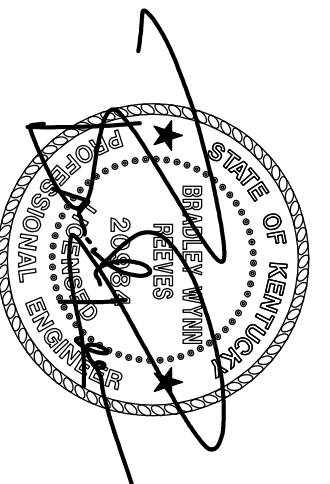
A. DUAL TECHNOLOGY WALL SWITCH SHALL BE WAIT STOPPER DR-250 OR APPROVED EQUAL.

Proj. #: 0901
Date: 5/24/2010
Drawn: IWF
Checked: IWF
Revised:

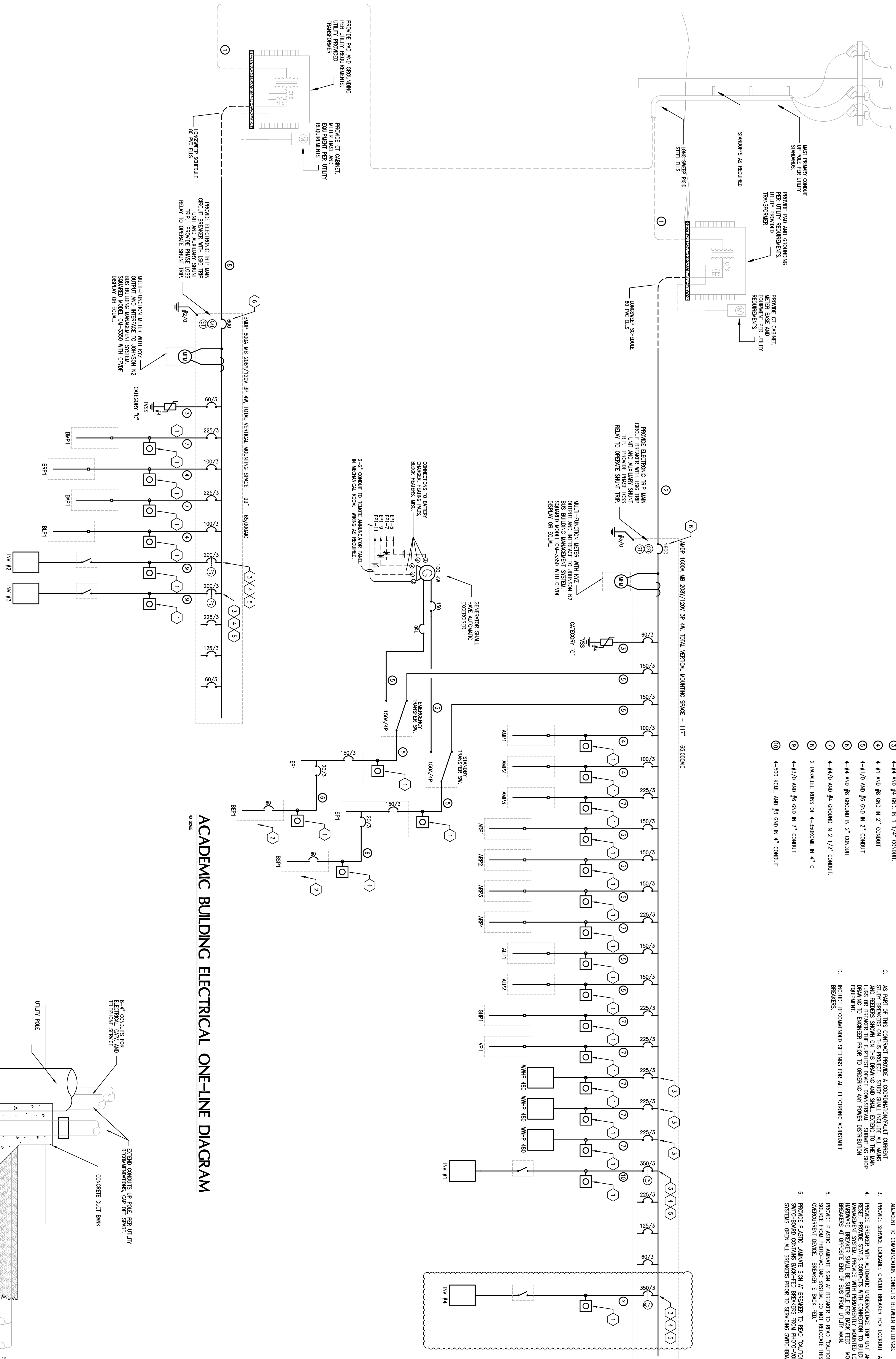
ACADEMIC BUILDING AREA- ELECTRICAL DETAILS
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- FEEDER SCHEDULE**
- ① 2 PARALLEL RUNS OF 4" CONDUIT FOR PRIMARY CABLE. PROVIDE TRACING AND CONDUIT PER UTILITY REQUIREMENTS. CABLE BY UTILITY.
 - ② INSTALL CONDUIT RISER ON DESIGNATED POLE AS REQUIRED.
 - ③ 5 PARALLEL RUNS OF 4-500KCAL IN 4" C
 - ④ 4-#4 AND #4 GND. IN 1 1/2" CONDUIT.
 - ⑤ 4-#1 AND #8 GND IN 2" CONDUIT
 - ⑥ 4-#1/0 AND #8 GND IN 2" CONDUIT
 - ⑦ 4-#4 AND #8 GND IN 2" CONDUIT
 - ⑧ 4-#1/0 AND #4 GND IN 2 1/2" CONDUIT.
 - ⑨ 2 PARALLEL RUNS OF 4-350KCAL IN 4" C
 - ⑩ 4-#3/0 AND #8 GND IN 2" CONDUIT
 - ⑪ 4-500 KCAL AND #3 GND IN 4" CONDUIT
- GENERAL NOTES**
- A. CONSULT ALL REQUIREMENTS WITH UTILITY PRIOR TO START OF WORK. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL UTILITY CONSTRUCTION REQUIREMENTS.
 - B. THE EXACT BREAKER SIZES SHALL BE DETERMINED WITH THE MECHANICAL, HVAC AND PLUMBING MECHANICAL EQUIPMENT.
 - C. AS PART OF THIS CONTRACT PROVIDE A COORDINATION/FAULT CURRENT STUDY BREAKERS ON THIS PROJECT. STUDY SHALL INCLUDE ALL MAINS LISTS FOR BREAKER THE FARTHEST OFFICE COMMERCIAL SHUNT AS SHIP DRAWING TO ENGINEER PRIOR TO OPENING ANY POWER DISTRIBUTION EQUIPMENT.
 - D. INCLUDE RECOMMENDED SETTINGS FOR ALL ELECTRONIC ADJUSTABLE BREAKERS.
- TAGGED NOTES:**
- 1. PROVIDE 400A RESENER POWER METER. SOURCE A POWER LOSS NETWORK. SERIES OR EQUAL METERS MUST BE PROVIDED TO DOC CONTROLS FOR NETWORK. A STANDARD TEMPLATE MUST BE PROVIDED TO DOC CONTROLS FOR NECESSARY CONDUIT AND CABLE TO CONNECT TO HVAC DOC SYSTEM.
 - 2. PANELS ARE LOCATED IN ARENA BUILDING. MOUNT CHANGERS ACROSS SITE ASBESTOS TO COMMUNICATION CHANGERS BETWEEN BUILDINGS.
 - 3. PROVIDE SERVICE LOCKABLE CIRCUIT BREAKER FOR LOOKOUT INDOOR USAGE.
 - 4. PROVIDE BREAKER WITH AUTOMATIC UNDERVOLTAGE TRIP UNIT AND MANUAL RESET. PROVIDE STATUS CONTACTS WITH CONNECTION TO BUILDING HARDWARE. BREAKER SHALL BE SUITABLE FOR BACK FEED. MOUNT BREAKERS AT OPPOSITE END OF BUS FROM UTILITY MAIN.
 - 5. PROVIDE PLASTIC LAMINATE SIGN AT BREAKER TO READ "CAUTION: POWER SOURCE FROM PHOTO-VOLTAIC SYSTEM DO NOT RELOCATE THIS OVERCURRENT DEVICE. BREAKER IS BACK-FEED."
 - 6. PROVIDE PLASTIC LAMINATE SIGN AT BREAKER TO READ "CAUTION: THIS SWITCHBOARD CONTAINS BACK-FED BREAKERS FROM PHOTO-VOLTAIC SYSTEMS. OPEN ALL BREAKERS FROM TO SERVICE SWITCHBOARD."



ARENA BUILDING ELECTRICAL ONE-LINE DIAGRAM

PRIMARY POLE RISER DETAIL
 NOT TO SCALE

These record documents have been prepared on the basis of information furnished by the client. The engineer assumes no responsibility for any errors or omissions which may have been incorporated into this document as a result of Record Document Date: 5/29/2012

